

## SEQUENCE LISTING

<110> INYCTE PHARMACEUTICALS, INC.  
 HILLMAN, Jennifer L.  
 LAL, Preeti  
 TANG, Y. Tom  
 CORLEY, Neil C.  
 GUEGLER, Karl J.  
 BAUGHN, Mariah R.  
 PATTERSON, Chandra  
 BANDMAN, Olga  
 AU-YOUNG, Janice  
 GORGONE, Gina A.  
 YUE, Henry  
 AZIMZAI, Yalda  
 REDDY, Roopa  
 LU, Dyung Aina M.  
 SHIH, Leo L.

<120> PHOSPHORYLATION EFFECTORS

<130> PF-0565 PCT

<140> To Be Assigned  
 <141> Herewith

<150> 09/123,494; unassigned; 09/152,814; unassigned; 09/173,482;  
 unassigned; 60/106,889; 60/109,093; 60/113,796;  
 <151> 1998-07-28; 1998-07-28; 1998-09-14; 1998-09-14; 1998-10-14;  
 1998-10-14; 1998-11-03; 1998-11-19; 1998-12-22

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<170> PERL Program

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 <213> Homo sapiens

<220>  
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 <223> Incyte Clone Number: 132240

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 Ile Val Thr Pro Asp Cys Gln Glu Lys Thr Ser Pro Lys Gly Val  
 35 40 45  
 Glu Asn Pro Ala Val Gln Glu Ser Asn Gln Lys Met Leu Gly Pro  
 50 55 60  
 Pro Leu Glu Val Leu Lys Thr Leu Ala Ser Lys Arg Asn Ala Val  
 65 70 75

Ala	Phe	Arg	Ser	Phe	Asn	Ser	His	Ile	Asn	Ala	Ser	Asn	Asn	Ser
				80					85					90
Glu	Pro	Ser	Arg	Met	Asn	Met	Thr	Ser	Leu	Asp	Ala	Met	Asp	Ile
				95					100					105
Ser	Cys	Ala	Tyr	Ser	Gly	Ser	Tyr	Pro	Met	Ala	Ile	Thr	Pro	Thr
				110					115					120
Gln	Lys	Arg	Arg	Ser	Cys	Met	Pro	His	Gln	Thr	Pro	Asn	Gln	Ile
				125					130					135
Lys	Ser	Gly	Thr	Pro	Tyr	Arg	Thr	Pro	Lys	Ser	Val	Arg	Arg	Gly
				140					145					150
Val	Ala	Pro	Val	Asp	Asp	Gly	Arg	Ile	Leu	Gly	Thr	Pro	Asp	Tyr
				155					160					165
Leu	Ala	Pro	Glu	Leu	Leu	Leu	Gly	Arg	Ala	His	Gly	Pro	Ala	Val
				170					175					180
Asp	Trp	Trp	Ala	Leu	Gly	Val	Cys	Leu	Phe	Glu	Phe	Leu	Thr	Gly
				185					190					195
Ile	Pro	Pro	Phe	Asn	Asp	Glu	Thr	Pro	Gln	Gln	Val	Phe	Gln	Asn
				200					205					210
Ile	Leu	Lys	Arg	Asp	Ile	Pro	Trp	Pro	Glu	Gly	Glu	Glu	Lys	Leu
				215					220					225
Ser	Asp	Asn	Ala	Gln	Ser	Ala	Val	Glu	Ile	Leu	Leu	Thr	Ile	Asp
				230					235					240
Asp	Thr	Lys	Arg	Ala	Gly	Met	Lys	Glu	Leu	Lys	Arg	His	Pro	Leu
				245					250					255
Phe	Ser	Asp	Val	Asp	Trp	Glu	Asn	Leu	Gln	His	Gln	Thr	Met	Pro
				260					265					270
Phe	Ile	Pro	Gln	Pro	Asp	Asp	Glu	Thr	Asp	Thr	Ser	Tyr	Phe	Glu
				275					280					285
Ala	Arg	Asn	Thr	Ala	Gln	His	Leu	Thr	Val	Ser	Gly	Phe	Ser	Leu
				290					295					300

&lt;210&gt; 2

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2180116

&lt;400&gt; 2

Met	Ala	Ala	Gln	Arg	Leu	Gly	Lys	Arg	Val	Leu	Ser	Lys	Leu	Gln
1					5				10					15
Ser	Pro	Ser	Arg	Ala	Arg	Gly	Pro	Gly	Gly	Ser	Pro	Gly	Gly	Met
				20					25					30
Gln	Lys	Arg	His	Ala	Arg	Val	Thr	Val	Lys	Tyr	Asp	Arg	Arg	Glu
				35					40					45
Leu	Gln	Arg	Arg	Leu	Asp	Val	Glu	Lys	Trp	Ile	Asp	Gly	Arg	Leu
				50					55					60
Glu	Glu	Leu	Tyr	Arg	Gly	Met	Glu	Ala	Asp	Met	Pro	Asp	Glu	Ile
				65					70					75
Asn	Ile	Asp	Glu	Leu	Leu	Glu	Leu	Glu	Ser	Glu	Glu	Glu	Arg	Ser
				80					85					90
Arg	Lys	Ile	Gln	Gly	Leu	Leu	Lys	Ser	Cys	Gly	Lys	Pro	Val	Glu
				95					100					105

Asp	Phe	Ile	Gln	Glu	Leu	Leu	Ala	Lys	Leu	Gln	Gly	Leu	His	Arg
				110					115					120
Gln	Pro	Gly	Leu	Arg	Gln	Pro	Ser	Pro	Ser	His	Asp	Gly	Ser	Leu
				125					130					135
Ser	Pro	Leu	Gln	Asp	Arg	Ala	Arg	Thr	Ala	His	Pro			
				140					145					

&lt;210&gt; 3

&lt;211&gt; 431

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2197671

&lt;400&gt; 3

Met	Ala	His	Ser	Pro	Val	Gln	Ser	Gly	Leu	Pro	Gly	Met	Gln	Asn
1				5					10					15
Leu	Lys	Ala	Asp	Pro	Glu	Glu	Leu	Phe	Thr	Lys	Leu	Glu	Lys	Ile
				20					25					30
Gly	Lys	Gly	Ser	Phe	Gly	Glu	Val	Phe	Lys	Gly	Ile	Asp	Asn	Arg
				35					40					45
Thr	Gln	Lys	Val	Val	Ala	Ile	Lys	Ile	Ile	Asp	Leu	Glu	Glu	Ala
				50					55					60
Glu	Asp	Glu	Ile	Glu	Asp	Ile	Gln	Gln	Glu	Ile	Thr	Val	Leu	Ser
				65					70					75
Gln	Cys	Asp	Ser	Pro	Tyr	Val	Thr	Lys	Tyr	Tyr	Gly	Ser	Tyr	Leu
				80					85					90
Lys	Asp	Thr	Lys	Leu	Trp	Ile	Ile	Met	Glu	Tyr	Leu	Gly	Gly	Gly
				95					100					105
Ser	Ala	Leu	Asp	Leu	Leu	Glu	Pro	Gly	Arg	Leu	Asp	Glu	Thr	Gln
				110					115					120
Ile	Ala	Thr	Ile	Leu	Arg	Glu	Ile	Leu	Lys	Gly	Leu	Asp	Tyr	Leu
				125					130					135
His	Ser	Glu	Lys	Lys	Ile	His	Arg	Asp	Ile	Lys	Ala	Ala	Asn	Val
				140					145					150
Leu	Leu	Ser	Glu	His	Gly	Glu	Val	Lys	Leu	Ala	Asp	Phe	Gly	Val
				155					160					165
Ala	Gly	Gln	Leu	Thr	Asp	Thr	Gln	Ile	Lys	Arg	Asn	Thr	Phe	Val
				170					175					180
Gly	Thr	Pro	Phe	Trp	Met	Ala	Pro	Glu	Val	Ile	Lys	Gln	Ser	Ala
				185					190					195
Tyr	Asp	Ser	Lys	Ala	Asp	Ile	Trp	Ser	Leu	Gly	Ile	Thr	Ala	Ile
				200					205					210
Glu	Leu	Ala	Arg	Gly	Glu	Pro	Pro	His	Ser	Glu	Leu	His	Pro	Met
				215					220					225
Lys	Val	Leu	Phe	Leu	Ile	Pro	Lys	Asn	Asn	Pro	Pro	Thr	Leu	Glu
				230					235					240
Gly	Asn	Tyr	Ser	Lys	Pro	Leu	Lys	Glu	Phe	Val	Glu	Ala	Cys	Leu
				245					250					255
Asn	Lys	Glu	Pro	Ser	Phe	Arg	Pro	Thr	Ala	Lys	Glu	Leu	Leu	Lys
				260					265					270
His	Lys	Phe	Ile	Leu	Arg	Asn	Ala	Lys	Lys	Thr	Ser	Tyr	Leu	Thr
				275					280					285

Glu	Leu	Ile	Asp	Arg	Tyr	Lys	Arg	Trp	Lys	Ala	Glu	Gln	Ser	His
				290					295					300
Asp	Asp	Ser	Ser	Ser	Glu	Asp	Ser	Asp	Ala	Glu	Thr	Asp	Gly	Gln
				305					310					315
Ala	Ser	Gly	Gly	Ser	Asp	Ser	Gly	Asp	Trp	Ile	Phe	Thr	Ile	Arg
				320					325					330
Glu	Lys	Asp	Pro	Lys	Asn	Leu	Glu	Asn	Gly	Ala	Leu	Gln	Pro	Ser
				335					340					345
Asp	Leu	Asp	Arg	Asn	Lys	Met	Lys	Asp	Ile	Pro	Lys	Arg	Pro	Phe
				350					355					360
Ser	Gln	Cys	Leu	Ser	Thr	Ile	Ile	Ser	Pro	Leu	Phe	Ala	Glu	Leu
				365					370					375
Lys	Glu	Lys	Ser	Gln	Ala	Cys	Gly	Gly	Asn	Leu	Gly	Ser	Ile	Glu
				380					385					390
Glu	Leu	Arg	Gly	Ala	Ile	Tyr	Leu	Ala	Glu	Glu	Ala	Cys	Pro	Gly
				395					400					405
Ile	Ser	Asp	Thr	Met	Val	Ala	Gln	Leu	Val	Gln	Arg	Leu	Gln	Arg
				410					415					420
Tyr	Ser	Leu	Ser	Gly	Gly	Gly	Thr	Ser	Ser	His				
				425					430					

&lt;210&gt; 4

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2594943

&lt;400&gt; 4

Met	Asn	Cys	Arg	Ser	Glu	Val	Leu	Glu	Val	Ser	Val	Glu	Gly	Arg
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Gln	Val	Glu	Glu	Ala	Met	Leu	Ala	Val	Leu	His	Thr	Val	Leu	Leu
				20					25					30
His	Arg	Ser	Thr	Gly	Lys	Phe	His	Tyr	Lys	Lys	Glu	Gly	Thr	Tyr
				35					40					45
Ser	Ile	Gly	Thr	Val	Gly	Thr	Gln	Asp	Val	Asp	Cys	Asp	Phe	Ile
				50					55					60
Asp	Phe	Thr	Tyr	Val	Arg	Val	Ser	Ser	Glu	Glu	Leu	Asp	Arg	Ala
				65					70					75
Leu	Arg	Lys	Val	Val	Gly	Glu	Phe	Lys	Asp	Ala	Leu	Arg	Asn	Ser
				80					85					90
Gly	Gly	Asp	Gly	Leu	Gly	Gln	Met	Ser	Leu	Glu	Phe	Tyr	Gln	Lys
				95					100					105
Lys	Lys	Ser	Arg	Trp	Pro	Phe	Ser	Asp	Glu	Cys	Ile	Pro	Trp	Glu
				110					115					120
Val	Trp	Thr	Val	Lys	Val	His	Val	Val	Ala	Leu	Ala	Thr	Glu	Gln
				125					130					135
Glu	Arg	Gln	Ile	Cys	Arg	Glu	Lys	Val	Gly	Glu	Lys	Leu	Cys	Glu
				140					145					150
Lys	Ile	Ile	Asn	Ile	Val	Glu	Val	Met	Asn	Arg	His	Glu	Tyr	Leu
				155					160					165
Pro	Lys	Met	Pro	Thr	Gln	Ser	Glu	Val	Asp	Asn	Val	Phe	Asp	Thr
				170					175					180

Gly Leu Arg Asp Val Gln Pro Tyr Leu Tyr Lys Ile Ser Phe Gln  
 185 190 195  
 Ile Thr Asp Ala Leu Gly Thr Ser Val Thr Thr Thr Met Arg Arg  
 200 205 210  
 Leu Ile Lys Asp Thr Leu Ala Leu  
 215

<210> 5  
 <211> 474  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte Clone Number: 1513871

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 Ser Val Pro Arg Thr Glu Thr Ile Glu Glu Ser Leu Ala Glu Phe  
 20 25 30  
 Thr Glu Gln Phe Asn Gln Leu His Asn Arg Arg Asn Glu Asn Leu  
 35 40 45  
 Gln Leu Gly Pro Leu Gly Arg Asp Pro Pro Gln Glu Cys Ser Thr  
 50 55 60  
 Phe Ser Pro Thr Asp Ser Gly Glu Glu Pro Gly Gln Leu Ser Pro  
 65 70 75  
 Gly Val Gln Phe Gln Arg Arg Gln Asn Gln Arg Arg Phe Ser Met  
 80 85 90  
 Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met Asp Ile Arg Leu  
 95 100 105  
 Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser Pro Asp Leu  
 110 115 120  
 Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu Ser Asp  
 125 130 135  
 Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys Leu  
 140 145 150  
 Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu  
 155 160 165  
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu  
 170 175 180  
 Glu Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys  
 185 190 195  
 Asn Leu Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His  
 200 205 210  
 Thr Asp Arg Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp  
 215 220 225  
 Leu Lys Gln Tyr Leu Asp His Cys Gly Asn Leu Met Ser Met His  
 230 235 240  
 Asn Val Lys Ile Phe Met Phe Gln Leu Leu Arg Gly Leu Ala Tyr  
 245 250 255  
 Cys His His Arg Lys Ile Leu His Arg Asp Leu Lys Pro Gln Asn  
 260 265 270  
 Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe Gly  
 275 280 285

Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro	Thr	Lys	Thr	Tyr	Ser	Asn	Glu
				290					295					300
Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro	Asp	Val	Leu	Leu	Gly	Ser
				305					310					315
Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp	Gly	Val	Gly	Cys	Ile
				320					325					330
His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe	Pro	Gly	Ser	Thr
				335					340					345
Val	Lys	Glu	Glu	Leu	His	Leu	Ile	Phe	Arg	Leu	Leu	Gly	Thr	Pro
				350					355					360
Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu	Phe	Arg
				365					370					375
Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn	His
				380					385					390
Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu
				395					400					405
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Leu
				410					415					420
Ser	His	Ser	Tyr	Phe	Arg	Ser	Leu	Gly	Glu	Arg	Val	His	Gln	Leu
				425					430					435
Glu	Asp	Thr	Ala	Ser	Ile	Phe	Ser	Leu	Lys	Glu	Ile	Gln	Leu	Gln
				440					445					450
Lys	Asp	Pro	Gly	Tyr	Arg	Gly	Leu	Ala	Phe	Gln	Gln	Pro	Gly	Arg
				455					460					465
Gly	Lys	Asn	Arg	Arg	Gln	Ser	Ile	Phe						
				470										

&lt;210&gt; 6

&lt;211&gt; 540

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 156108

&lt;400&gt; 6

Met	Asn	Gly	Glu	Ala	Ile	Cys	Ser	Ala	Leu	Pro	Thr	Ile	Pro	Tyr
1				5					10					15
His	Lys	Leu	Ala	Asp	Leu	Arg	Tyr	Leu	Ser	Arg	Gly	Ala	Ser	Gly
				20					25					30
Thr	Val	Ser	Ser	Ala	Arg	His	Ala	Asp	Trp	Arg	Val	Gln	Val	Ala
				35					40					45
Val	Lys	His	Leu	His	Ile	His	Thr	Pro	Leu	Leu	Asp	Ser	Glu	Arg
				50					55					60
Lys	Asp	Val	Leu	Arg	Glu	Ala	Glu	Ile	Leu	His	Lys	Ala	Arg	Phe
				65					70					75
Ser	Tyr	Ile	Leu	Pro	Ile	Leu	Gly	Ile	Cys	Asn	Glu	Pro	Glu	Phe
				80					85					90
Leu	Gly	Ile	Val	Thr	Glu	Tyr	Met	Pro	Asn	Gly	Ser	Leu	Asn	Glu
				95					100					105
Leu	Leu	His	Arg	Lys	Thr	Glu	Tyr	Pro	Asp	Val	Ala	Trp	Pro	Leu
				110					115					120
Arg	Phe	Arg	Ile	Leu	His	Glu	Ile	Ala	Leu	Gly	Val	Asn	Tyr	Leu

	125		130		135
His Asn Met Thr	Pro Pro Leu Leu His	His Asp Leu Lys Thr	Gln		
	140		145		150
Asn Ile Leu Leu	Asp Asn Glu Phe His	Val Lys Ile Ala Asp	Phe		
	155		160		165
Gly Leu Ser Lys	Trp Arg Met Met Ser	Leu Ser Gln Ser Arg	Ser		
	170		175		180
Ser Lys Ser Ala	Pro Glu Gly Gly Thr	Ile Ile Tyr Met Pro	Pro		
	185		190		195
Glu Asn Tyr Glu	Pro Gly Gln Lys Ser	Arg Ala Ser Ile Lys	His		
	200		205		210
Asp Ile Tyr Ser	Tyr Ala Val Ile Thr	Trp Glu Val Leu Ser	Arg		
	215		220		225
Lys Gln Pro Phe	Glu Asp Val Thr Asn	Pro Leu Gln Ile Met	Tyr		
	230		235		240
Ser Val Ser Gln	Gly His Arg Pro Val	Ile Asn Glu Glu Ser	Leu		
	245		250		255
Pro Tyr Asp Ile	Pro His Arg Ala Arg	Met Ile Ser Leu Ile	Glu		
	260		265		270
Ser Gly Trp Ala	Gln Asn Pro Asp Glu	Arg Pro Ser Phe Leu	Lys		
	275		280		285
Cys Leu Ile Glu	Leu Glu Pro Val Leu	Arg Thr Phe Glu Glu	Ile		
	290		295		300
Thr Phe Leu Glu	Ala Val Ile Gln Leu	Lys Lys Thr Lys Leu	Gln		
	305		310		315
Ser Val Ser Ser	Ala Ile His Leu Cys	Asp Lys Lys Lys Met	Glu		
	320		325		330
Leu Ser Leu Asn	Ile Pro Val Asn His	Gly Pro Gln Glu Glu	Ser		
	335		340		345
Cys Gly Ser Ser	Gln Leu His Glu Asn	Ser Gly Ser Pro Glu	Thr		
	350		355		360
Ser Arg Ser Leu	Pro Ala Pro Gln Asp	Asn Asp Phe Leu Ser	Arg		
	365		370		375
Lys Ala Gln Asp	Cys Tyr Phe Met Lys	Leu His His Cys Pro	Gly		
	380		385		390
Asn His Ser Trp	Asp Ser Thr Ile Ser	Gly Ser Gln Arg Ala	Ala		
	395		400		405
Phe Cys Asp His	Lys Thr Thr Pro Cys	Ser Ser Ala Ile Ile	Asn		
	410		415		420
Pro Leu Ser Thr	Ala Gly Asn Ser Glu	Arg Leu Gln Pro Gly	Ile		
	425		430		435
Ala Gln Gln Trp	Ile Gln Ser Lys Arg	Glu Asp Ile Val Asn	Gln		
	440		445		450
Met Thr Glu Ala	Cys Leu Asn Gln Ser	Leu Asp Ala Leu Leu	Ser		
	455		460		465
Arg Asp Leu Ile	Met Lys Glu Asp Tyr	Glu Leu Val Ser Thr	Lys		
	470		475		480
Pro Thr Arg Thr	Ser Lys Val Arg Gln	Leu Leu Asp Thr Thr	Asp		
	485		490		495
Ile Gln Gly Glu	Glu Phe Ala Lys Val	Ile Val Gln Lys Leu	Lys		
	500		505		510
Asp Asn Lys Gln	Met Gly Leu Gln Pro	Tyr Pro Glu Ile Leu	Val		
	515		520		525
Val Ser Arg Ser	Pro Ser Leu Asn Leu	Leu Gln Asn Lys Ser	Met		
	530		535		540

<210> 7  
 <211> 454  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <223> Incyte Clone Number: 2883243

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 Ala Lys Thr Asp Ile Asn Cys Gly Thr Asp Leu Met Phe Tyr Ile  
 20 25 30  
 Glu Met Asp Pro Pro Ala Leu Pro Pro Lys Pro Pro Lys Pro Thr  
 35 40 45  
 Thr Val Ala Asn Asn Gly Met Asn Asn Asn Met Ser Leu Gln Asp  
 50 55 60  
 Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn Glu  
 65 70 75  
 Lys Leu Arg Asp Thr Ala Asp Gly Thr Phe Leu Val Arg Asp Ala  
 80 85 90  
 Ser Thr Lys Met His Gly Asp Tyr Thr Leu Thr Leu Arg Lys Gly  
 95 100 105  
 Gly Asn Asn Lys Leu Ile Lys Ile Phe His Arg Asp Gly Lys Tyr  
 110 115 120  
 Gly Phe Ser Asp Pro Leu Thr Phe Ser Ser Val Val Glu Leu Ile  
 125 130 135  
 Asn His Tyr Arg Asn Glu Ser Leu Ala Gln Tyr Asn Pro Lys Leu  
 140 145 150  
 Asp Val Lys Leu Leu Tyr Pro Val Ser Lys Tyr Gln Gln Asp Gln  
 155 160 165  
 Val Val Lys Glu Asp Asn Ile Glu Ala Val Gly Lys Lys Leu His  
 170 175 180  
 Glu Tyr Asn Thr Gln Phe Gln Glu Lys Ser Arg Glu Tyr Asp Arg  
 185 190 195  
 Leu Tyr Glu Glu Tyr Thr Arg Thr Ser Gln Glu Ile Gln Met Lys  
 200 205 210  
 Arg Thr Ala Ile Glu Ala Phe Asn Glu Thr Ile Lys Ile Phe Glu  
 215 220 225  
 Glu Gln Cys Gln Thr Gln Glu Arg Tyr Ser Lys Glu Tyr Ile Glu  
 230 235 240  
 Lys Phe Lys Arg Glu Gly Asn Glu Lys Glu Ile Gln Arg Ile Met  
 245 250 255  
 His Asn Tyr Asp Lys Leu Lys Ser Arg Ile Ser Glu Ile Ile Asp  
 260 265 270  
 Ser Arg Arg Arg Leu Glu Glu Asp Leu Lys Lys Gln Ala Ala Glu  
 275 280 285  
 Tyr Arg Glu Ile Asp Lys Arg Met Asn Ser Ile Lys Pro Asp Leu  
 290 295 300  
 Ile Gln Leu Arg Lys Thr Arg Asp Gln Tyr Leu Met Trp Leu Thr  
 305 310 315  
 Gln Lys Gly Val Arg Gln Lys Lys Leu Asn Glu Trp Leu Gly Asn  
 320 325 330  
 Glu Asn Thr Glu Asp Gln Tyr Ser Leu Val Glu Asp Asp Glu Asp  
 335 340 345



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Leu Pro His His Asp Glu Lys Thr Trp Asn Val Gly Ser Ser Asn
      350                      355                      360
Arg Asn Lys Ala Glu Asn Leu Leu Arg Gly Lys Arg Asp Gly Thr
      365                      370                      375
Phe Leu Val Arg Glu Ser Ser Lys Gln Gly Cys Tyr Ala Cys Ser
      380                      385                      390
Val Val Val Asp Gly Glu Val Lys His Cys Val Ile Asn Lys Thr
      395                      400                      405
Ala Thr Gly Tyr Gly Phe Ala Glu Pro Tyr Asn Leu Tyr Ser Ser
      410                      415                      420
Leu Lys Glu Leu Val Leu His Tyr Gln His Thr Ser Leu Val Gln
      425                      430                      435
His Asn Asp Ser Leu Asn Val Thr Leu Ala Tyr Pro Val Tyr Ala
      440                      445                      450
Gln Gln Arg Arg

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&lt;210&gt; 8

&lt;211&gt; 502

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 3173355

&lt;400&gt; 8

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Met Phe Gly Thr Leu Leu Leu Tyr Cys Phe Phe Leu Ala Thr Val
  1                      5                      10                      15
Pro Ala Leu Ala Glu Thr Gly Gly Glu Arg Gln Leu Ser Pro Glu
      20                      25                      30
Lys Ser Glu Ile Trp Gly Pro Gly Leu Lys Ala Asp Val Val Leu
      35                      40                      45
Pro Ala Arg Tyr Phe Tyr Ile Gln Ala Val Asp Thr Ser Gly Asn
      50                      55                      60
Lys Phe Thr Ser Ser Pro Gly Glu Lys Val Phe Gln Val Lys Val
      65                      70                      75
Ser Ala Pro Glu Glu Gln Phe Thr Arg Val Gly Val Gln Val Leu
      80                      85                      90
Asp Arg Lys Asp Gly Ser Phe Ile Val Arg Tyr Arg Met Tyr Ala
      95                      100                     105
Ser Tyr Lys Asn Leu Lys Val Glu Ile Lys Phe Gln Gly Gln His
      110                     115                     120
Val Ala Lys Ser Pro Tyr Ile Leu Lys Gly Pro Val Tyr His Glu
      125                     130                     135
Asn Cys Asp Cys Pro Leu Gln Asp Ser Ala Ala Trp Leu Arg Glu
      140                     145                     150
Met Asn Cys Pro Glu Thr Ile Ala Gln Ile Gln Arg Asp Leu Ala
      155                     160                     165
His Phe Pro Ala Val Asp Pro Glu Lys Ile Ala Val Glu Ile Pro
      170                     175                     180
Lys Arg Phe Gly Gln Arg Gln Ser Leu Cys His Tyr Thr Leu Lys
      185                     190                     195
Asp Asn Lys Val Tyr Ile Lys Thr His Gly Glu His Val Gly Phe
      200                     205                     210
Arg Ile Phe Met Asp Ala Ile Leu Leu Ser Leu Thr Arg Lys Val

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	215		220		225
Lys Met Pro Asp Val Glu Leu Phe Val Asn Leu Gly Asp Trp Pro					
	230		235		240
Leu Glu Lys Lys Lys Ser Asn Ser Asn Ile His Pro Ile Phe Ser					
	245		250		255
Trp Cys Gly Ser Thr Asp Ser Lys Asp Ile Val Met Pro Thr Tyr					
	260		265		270
Asp Leu Thr Asp Ser Val Leu Glu Thr Met Gly Arg Val Ser Leu					
	275		280		285
Asp Met Met Ser Val Gln Ala Asn Thr Gly Pro Pro Trp Glu Ser					
	290		295		300
Lys Asn Ser Thr Ala Val Trp Arg Gly Arg Asp Ser Arg Lys Glu					
	305		310		315
Arg Leu Glu Leu Val Lys Leu Ser Arg Lys His Pro Glu Leu Ile					
	320		325		330
Asp Ala Ala Phe Thr Asn Phe Phe Phe Phe Lys His Asp Glu Asn					
	335		340		345
Leu Tyr Gly Pro Ile Val Lys His Ile Ser Phe Phe Asp Phe Phe					
	350		355		360
Lys His Lys Tyr Gln Ile Asn Ile Asp Gly Thr Val Ala Ala Tyr					
	365		370		375
Arg Leu Pro Tyr Leu Leu Val Gly Asp Ser Val Val Leu Lys Gln					
	380		385		390
Asp Ser Ile Tyr Tyr Glu His Phe Tyr Asn Glu Leu Gln Pro Trp					
	395		400		405
Lys His Tyr Ile Pro Val Lys Ser Asn Leu Ser Asp Leu Leu Glu					
	410		415		420
Lys Leu Lys Trp Ala Lys Asp His Asp Glu Glu Ala Lys Lys Ile					
	425		430		435
Ala Lys Ala Gly Gln Glu Phe Ala Arg Asn Asn Leu Met Gly Asp					
	440		445		450
Asp Ile Phe Cys Tyr Tyr Phe Lys Leu Phe Gln Glu Tyr Ala Asn					
	455		460		465
Leu Gln Val Ser Glu Pro Gln Ile Arg Glu Gly Met Lys Arg Val					
	470		475		480
Glu Pro Gln Thr Glu Asp Asp Leu Phe Pro Cys Thr Cys His Arg					
	485		490		495
Lys Lys Thr Lys Asp Glu Leu					
	500				

&lt;210&gt; 9

&lt;211&gt; 282

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 5116906

&lt;400&gt; 9

Met Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr			
1	5	10	15
Pro Pro Phe Trp Asp Glu Asp Gln His Arg Leu Tyr Gln Gln Ile			
	20	25	30
Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr Val			
	35	40	45

Thr	Pro	Glu	Ala	Lys	Asp	Leu	Ile	Asn	Lys	Met	Leu	Thr	Ile	Asn	
				50					55					60	
Pro	Ala	Lys	Arg	Ile	Thr	Ala	Ser	Glu	Ala	Leu	Lys	His	Pro	Trp	
				65					70					75	
Ile	Cys	Gln	Arg	Ser	Thr	Val	Ala	Ser	Met	Met	His	Arg	Gln	Glu	
				80					85					90	
Thr	Val	Asp	Cys	Leu	Lys	Lys	Phe	Asn	Ala	Arg	Arg	Lys	Leu	Lys	
				95					100					105	
Gly	Ala	Ile	Leu	Thr	Thr	Met	Leu	Ala	Thr	Arg	Asn	Phe	Ser	Ala	
				110					115					120	
Ala	Lys	Ser	Leu	Leu	Lys	Lys	Pro	Asp	Gly	Val	Lys	Glu	Ser	Thr	
				125					130					135	
Glu	Ser	Ser	Asn	Thr	Thr	Ile	Glu	Asp	Glu	Asp	Val	Lys	Ala	Arg	
				140					145					150	
Lys	Gln	Glu	Ile	Ile	Lys	Val	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Ile	
				155					160					165	
Asn	Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Thr	Lys	Ile	Cys	Asp	Pro	Gly	
				170					175					180	
Leu	Thr	Ala	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	
				185					190					195	
Met	Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Ala	Leu	Ser	Lys	Ser	
				200					205					210	
Asn	Lys	Pro	Ile	His	Thr	Ile	Ile	Leu	Asn	Pro	His	Val	His	Leu	
				215					220					225	
Val	Gly	Asp	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	
				230					235					240	
Tyr	Met	Asp	Gly	Ser	Gly	Met	Pro	Lys	Thr	Met	Gln	Ser	Glu	Glu	
				245					250					255	
Thr	Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	
				260					265					270	
Phe	His	Arg	Ser	Gly	Ser	Pro	Thr	Val	Pro	Ile	Asn				
				275					280						

&lt;210&gt; 10

&lt;211&gt; 510

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 940589

&lt;400&gt; 10

Met	Lys	Ala	Asp	Ile	Lys	Ile	Trp	Ile	Leu	Thr	Gly	Asp	Lys	Gln	
1				5					10					15	
Glu	Thr	Ala	Ile	Asn	Ile	Gly	His	Ser	Cys	Lys	Leu	Leu	Lys	Lys	
				20					25					30	
Asn	Met	Gly	Met	Ile	Val	Ile	Asn	Glu	Gly	Ser	Leu	Asp	Ser	Phe	
				35					40					45	
Ser	Asn	Thr	Gln	Asn	Ser	Arg	Lys	Glu	Ala	Val	Leu	Leu	Ala	Lys	
				50					55					60	
Met	Lys	His	Pro	Asn	Ile	Val	Ala	Phe	Lys	Glu	Ser	Phe	Glu	Ala	
				65					70					75	
Glu	Gly	His	Leu	Tyr	Ile	Val	Met	Glu	Tyr	Cys	Asp	Gly	Gly	Asp	
				80					85					90	

Leu	Met	Gln	Lys	Ile	Lys	Gln	Gln	Lys	Gly	Lys	Leu	Phe	Pro	Glu
				95					100					105
Asp	Met	Ile	Leu	Asn	Trp	Phe	Thr	Gln	Met	Cys	Leu	Gly	Val	Asn
				110					115					120
His	Ile	His	Lys	Lys	Arg	Val	Leu	His	Arg	Asp	Ile	Lys	Ser	Lys
				125					130					135
Asn	Ile	Phe	Leu	Thr	Gln	Asn	Gly	Lys	Val	Lys	Leu	Gly	Asp	Phe
				140					145					150
Gly	Ser	Ala	Arg	Leu	Leu	Ser	Asn	Pro	Met	Ala	Phe	Ala	Cys	Thr
				155					160					165
Tyr	Val	Gly	Thr	Pro	Tyr	Tyr	Val	Pro	Pro	Glu	Ile	Trp	Glu	Asn
				170					175					180
Leu	Pro	Tyr	Asn	Asn	Lys	Ser	Asp	Ile	Trp	Ser	Leu	Gly	Cys	Ile
				185					190					195
Leu	Tyr	Glu	Leu	Cys	Thr	Leu	Lys	His	Pro	Phe	Gln	Ala	Asn	Ser
				200					205					210
Trp	Lys	Asn	Leu	Ile	Leu	Lys	Val	Cys	Gln	Gly	Cys	Ile	Ser	Pro
				215					220					225
Leu	Pro	Ser	His	Tyr	Ser	Tyr	Glu	Leu	Gln	Phe	Leu	Val	Lys	Gln
				230					235					240
Met	Phe	Lys	Arg	Asn	Pro	Ser	His	Arg	Pro	Ser	Ala	Thr	Thr	Leu
				245					250					255
Leu	Ser	Arg	Gly	Ile	Val	Ala	Arg	Leu	Val	Gln	Lys	Cys	Leu	Pro
				260					265					270
Pro	Glu	Ile	Ile	Met	Glu	Tyr	Gly	Glu	Glu	Val	Leu	Glu	Glu	Ile
				275					280					285
Lys	Asn	Ser	Lys	His	Asn	Thr	Pro	Arg	Lys	Lys	Thr	Asn	Pro	Ser
				290					295					300
Arg	Ile	Arg	Ile	Ala	Leu	Gly	Asn	Glu	Ala	Ser	Thr	Val	Gln	Glu
				305					310					315
Glu	Glu	Gln	Asp	Arg	Lys	Gly	Ser	His	Thr	Asp	Leu	Glu	Ser	Ile
				320					325					330
Asn	Glu	Asn	Leu	Val	Glu	Ser	Ala	Leu	Arg	Arg	Val	Asn	Arg	Glu
				335					340					345
Glu	Lys	Gly	Asn	Lys	Ser	Val	His	Leu	Arg	Lys	Ala	Ser	Ser	Pro
				350					355					360
Asn	Leu	His	Arg	Arg	Gln	Trp	Glu	Lys	Asn	Val	Pro	Asn	Thr	Ala
				365					370					375
Leu	Thr	Ala	Leu	Glu	Asn	Ala	Ser	Ile	Leu	Thr	Ser	Ser	Leu	Thr
				380					385					390
Ala	Glu	Asp	Asp	Arg	Gly	Gly	Ser	Val	Ile	Lys	Tyr	Ser	Lys	Asn
				395					400					405
Thr	Thr	Arg	Lys	Gln	Trp	Leu	Lys	Glu	Thr	Pro	Asp	Thr	Leu	Leu
				410					415					420
Asn	Ile	Leu	Lys	Asn	Ala	Asp	Leu	Ser	Leu	Ala	Phe	Gln	Thr	Tyr
				425					430					435
Thr	Ile	Tyr	Arg	Pro	Gly	Ser	Glu	Gly	Phe	Leu	Lys	Gly	Pro	Leu
				440					445					450
Ser	Glu	Glu	Thr	Glu	Ala	Ser	Asp	Ser	Val	Asp	Gly	Gly	His	Asp
				455					460					465
Ser	Val	Ile	Leu	Asp	Pro	Glu	Arg	Leu	Glu	Pro	Gly	Leu	Asp	Glu
				470					475					480
Glu	Asp	Thr	Asp	Phe	Glu	Glu	Glu	Asp	Asp	Asn	Pro	Asp	Trp	Val
				485					490					495
Ser	Glu	Leu	Lys	Lys	Arg	Ala	Gly	Trp	Gln	Gly	Leu	Cys	Asp	Arg
				500					505					510

<210> 11  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte Clone Number: 304421

<400> 11  
 Met Ala Glu Thr Ser Leu Pro Glu Leu Gly Gly Glu Asp Lys Ala  
 1 5 10 15  
 Thr Pro Cys Pro Ser Ile Leu Glu Leu Glu Glu Leu Arg Ala  
 20 25 30  
 Gly Lys Ser Ser Cys Ser Arg Val Asp Glu Val Trp Pro Asn Leu  
 35 40 45  
 Phe Ile Gly Asp Ala Met Asp Ser Leu Gln Lys Gln Asp Leu Arg  
 50 55 60  
 Arg Pro Lys Ile His Gly Ala Val Gln Ala Ser Pro Tyr Gln Pro  
 65 70 75  
 Pro Thr Leu Ala Ser Leu Gln Arg Leu Leu Trp Val Arg Gln Ala  
 80 85 90  
 Ala Thr Leu Asn His Ile Asp Glu Val Trp Pro Ser Leu Phe Leu  
 95 100 105  
 Gly Asp Ala Tyr Ala Ala Arg Asp Lys Ser Lys Leu Ile Gln Leu  
 110 115 120  
 Gly Ile Thr His Val Val Asn Ala Ala Ala Gly Lys Phe Gln Val  
 125 130 135  
 Asp Thr Gly Ala Lys Phe Tyr Arg Gly Met Ser Leu Glu Tyr Tyr  
 140 145 150  
 Gly Ile Glu Ala Asp Asp Asn Pro Phe Phe Asp Leu Ser Val Tyr  
 155 160 165  
 Phe Leu Pro Val Ala Arg Tyr Ile Arg Ala Ala Leu Ser Val Pro  
 170 175 180  
 Gln Gly Arg Val Leu Val His Cys Ala Met Gly Val Ser Arg Ser  
 185 190 195  
 Ala Thr Leu Val Leu Ala Phe Leu Met Ile Tyr Glu Asn Met Thr  
 200 205 210  
 Leu Val Glu Ala Ile Gln Thr Val Gln Ala His Arg Asn Ile Cys  
 215 220 225  
 Pro Asn Ser Gly Phe Leu Arg Gln Leu Gln Val Leu Asp Asn Arg  
 230 235 240  
 Leu Gly Arg Glu Thr Gly Arg Phe  
 245

<210> 12  
 <211> 810  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte Clone Number: 1213802

&lt;400&gt; 12

Met	Pro	Asn	Gln	Gly	Glu	Asp	Cys	Tyr	Phe	Phe	Phe	Tyr	Ser	Thr
1				5					10					15
Cys	Thr	Lys	Gly	Asp	Ser	Cys	Pro	Phe	Arg	His	Cys	Glu	Ala	Ala
				20					25					30
Ile	Gly	Asn	Glu	Thr	Val	Cys	Thr	Leu	Trp	Gln	Glu	Gly	Arg	Cys
				35					40					45
Phe	Arg	Gln	Val	Cys	Arg	Phe	Arg	His	Met	Glu	Ile	Asp	Lys	Lys
				50					55					60
Arg	Ser	Glu	Ile	Pro	Cys	Tyr	Trp	Glu	Asn	Gln	Pro	Thr	Gly	Cys
				65					70					75
Gln	Lys	Leu	Asn	Cys	Ala	Phe	His	His	Asn	Arg	Gly	Arg	Tyr	Val
				80					85					90
Asp	Gly	Leu	Phe	Leu	Pro	Pro	Ser	Lys	Thr	Val	Leu	Pro	Thr	Val
				95					100					105
Pro	Glu	Ser	Pro	Glu	Glu	Glu	Val	Lys	Ala	Ser	Gln	Leu	Ser	Val
				110					115					120
Gln	Gln	Asn	Lys	Leu	Ser	Val	Gln	Ser	Asn	Pro	Ser	Pro	Gln	Leu
				125					130					135
Arg	Ser	Val	Met	Lys	Val	Glu	Ser	Ser	Glu	Asn	Val	Pro	Ser	Pro
				140					145					150
Thr	His	Pro	Pro	Val	Val	Ile	Asn	Ala	Ala	Asp	Asp	Asp	Glu	Asp
				155					160					165
Asp	Asp	Asp	Gln	Phe	Ser	Glu	Glu	Gly	Asp	Glu	Thr	Lys	Thr	Pro
				170					175					180
Thr	Leu	Gln	Pro	Thr	Pro	Glu	Val	His	Asn	Gly	Leu	Arg	Val	Thr
				185					190					195
Ser	Val	Arg	Lys	Pro	Ala	Val	Asn	Ile	Lys	Gln	Gly	Glu	Cys	Leu
				200					205					210
Asn	Phe	Gly	Ile	Lys	Thr	Leu	Glu	Glu	Ile	Lys	Ser	Lys	Lys	Met
				215					220					225
Lys	Glu	Lys	Ser	Lys	Lys	Gln	Gly	Glu	Gly	Ser	Ser	Gly	Val	Ser
				230					235					240
Ser	Leu	Leu	Leu	His	Pro	Glu	Pro	Val	Pro	Gly	Pro	Glu	Lys	Glu
				245					250					255
Asn	Val	Arg	Thr	Val	Val	Arg	Thr	Val	Thr	Leu	Ser	Thr	Lys	Gln
				260					265					270
Gly	Glu	Glu	Pro	Leu	Val	Arg	Leu	Ser	Leu	Thr	Glu	Arg	Leu	Gly
				275					280					285
Lys	Arg	Lys	Phe	Ser	Ala	Gly	Gly	Asp	Ser	Asp	Pro	Pro	Leu	Lys
				290					295					300
Arg	Ser	Leu	Ala	Gln	Arg	Leu	Gly	Lys	Lys	Val	Glu	Ala	Pro	Glu
				305					310					315
Thr	Asn	Ile	Asp	Lys	Thr	Pro	Lys	Lys	Ala	Gln	Val	Ser	Lys	Ser
				320					325					330
Leu	Lys	Glu	Arg	Leu	Gly	Met	Ser	Ala	Asp	Pro	Asp	Asn	Glu	Asp
				335					340					345
Ala	Thr	Asp	Lys	Val	Asn	Lys	Val	Gly	Glu	Ile	His	Val	Lys	Thr
				350					355					360
Leu	Glu	Glu	Ile	Leu	Leu	Glu	Arg	Ala	Ser	Gln	Lys	Arg	Gly	Glu
				365					370					375
Leu	Gln	Thr	Lys	Leu	Lys	Thr	Glu	Gly	Pro	Ser	Lys	Thr	Asp	Asp
				380					385					390
Ser	Thr	Ser	Gly	Ala	Arg	Ser	Ser	Ser	Thr	Ile	Arg	Ile	Lys	Thr
				395					400					405
Phe	Ser	Glu	Val	Leu	Ala	Glu	Lys	Lys	His	Arg	Gln	Gln	Glu	Ala

	410		415		420
Glu Arg Gln Lys	Ser Lys Lys Asp Thr	Thr Cys Ile Lys Leu Lys			
	425		430		435
Ile Asp Ser Glu	Ile Lys Lys Thr Val	Val Leu Pro Pro Ile Val			
	440		445		450
Ala Ser Arg Gly	Gln Ser Glu Glu Pro	Ala Gly Lys Thr Lys Ser			
	455		460		465
Met Gln Glu Val	His Ile Lys Thr Leu	Glu Glu Ile Lys Leu Glu			
	470		475		480
Lys Ala Leu Arg	Val Gln Gln Ser Ser	Glu Ser Ser Thr Ser Ser			
	485		490		495
Pro Ser Gln His	Glu Ala Thr Pro Gly	Ala Arg Arg Leu Leu Arg			
	500		505		510
Ile Thr Lys Arg	Thr Gly Met Lys Glu	Glu Lys Asn Leu Gln Glu			
	515		520		525
Gly Asn Glu Val	Asp Ser Gln Ser Ser	Ile Arg Thr Glu Ala Lys			
	530		535		540
Glu Ala Ser Gly	Glu Thr Thr Gly Val	Asp Ile Thr Lys Ile Gln			
	545		550		555
Val Lys Arg Cys	Glu Thr Met Arg Glu	Lys His Met Gln Lys Gln			
	560		565		570
Gln Glu Arg Glu	Lys Ser Val Leu Thr	Pro Leu Arg Gly Asp Val			
	575		580		585
Ala Ser Cys Asn	Thr Gln Val Ala Glu	Lys Pro Val Leu Thr Ala			
	590		595		600
Val Pro Gly Ile	Thr Arg His Leu Thr	Lys Arg Leu Pro Thr Lys			
	605		610		615
Ser Ser Gln Lys	Val Glu Val Glu Thr	Ser Gly Ile Gly Asp Ser			
	620		625		630
Leu Leu Asn Val	Lys Cys Ala Ala Gln	Thr Leu Glu Lys Arg Gly			
	635		640		645
Lys Ala Lys Pro	Lys Val Asn Val Lys	Pro Ser Val Val Lys Val			
	650		655		660
Val Ser Ser Pro	Lys Leu Ala Pro Lys	Arg Lys Ala Val Glu Met			
	665		670		675
His Ala Ala Val	Ile Ala Ala Val Lys	Pro Leu Ser Ser Ser Ser			
	680		685		690
Val Leu Gln Glu	Pro Pro Ala Lys Lys	Ala Ala Val Ala Val Val			
	695		700		705
Pro Leu Val Ser	Glu Asp Lys Ser Val	Thr Val Pro Glu Ala Glu			
	710		715		720
Asn Pro Arg Asp	Ser Leu Val Leu Pro	Pro Thr Gln Ser Ser Ser			
	725		730		735
Asp Ser Ser Pro	Pro Glu Val Ser Gly	Pro Ser Ser Ser Gln Met			
	740		745		750
Ser Met Lys Thr	Arg Arg Leu Ser Ser	Ala Ser Thr Gly Lys Pro			
	755		760		765
Pro Leu Ser Val	Glu Asp Asp Phe Glu	Lys Leu Ile Trp Glu Ile			
	770		775		780
Ser Gly Gly Lys	Leu Glu Ala Glu Ile	Asp Leu Asp Pro Gly Lys			
	785		790		795
Asp Glu Asp Asp	Leu Leu Leu Glu Leu	Ser Glu Met Ile Asp Ser			
	800		805		810

&lt;211&gt; 549

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 1378134

&lt;400&gt; 13

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Met Arg Arg Arg Ala Ser Asn Ala Ala Ala Ala Ala His Thr Ile
  1          5          10          15
Gly Gly Ser Lys His Thr Met Asn Asp His Leu His Val Gly Ser
          20          25          30
His Ala His Gly Gln Ile Gln Val Arg Gln Leu Phe Glu Asp Asn
          35          40          45
Ser Asn Lys Arg Thr Val Leu Thr Thr Gln Pro Asn Gly Leu Thr
          50          55          60
Thr Val Gly Lys Thr Gly Leu Pro Val Val Pro Glu Arg Gln Leu
          65          70          75
Asp Ser Ile His Arg Arg Gln Gly Ser Ser Thr Ser Leu Lys Ser
          80          85          90
Met Glu Gly Met Gly Lys Val Lys Ala Thr Pro Met Thr Pro Glu
          95          100          105
Gln Ala Met Lys Gln Tyr Met Gln Lys Leu Thr Ala Phe Glu His
          110          115          120
His Glu Ile Phe Ser Tyr Pro Glu Ile Tyr Phe Leu Gly Leu Asn
          125          130          135
Ala Lys Lys Arg Gln Gly Met Thr Gly Gly Pro Asn Asn Gly Gly
          140          145          150
Tyr Asp Asp Asp Gln Gly Ser Tyr Val Gln Val Pro His Asp His
          155          160          165
Val Ala Tyr Arg Tyr Glu Val Leu Lys Val Ile Gly Lys Gly Ser
          170          175          180
Phe Gly Gln Val Val Lys Ala Tyr Asp His Lys Val His Gln His
          185          190          195
Val Ala Leu Lys Met Val Arg Asn Glu Lys Arg Phe His Arg Gln
          200          205          210
Ala Ala Glu Glu Ile Arg Ile Leu Glu His Leu Arg Lys Gln Asp
          215          220          225
Lys Asp Asn Thr Met Asn Val Ile His Met Leu Glu Asn Phe Thr
          230          235          240
Phe Arg Asn His Ile Cys Met Thr Phe Glu Leu Leu Ser Met Asn
          245          250          255
Leu Tyr Glu Leu Ile Lys Lys Asn Lys Phe Gln Gly Phe Ser Leu
          260          265          270
Pro Leu Val Arg Lys Phe Ala His Ser Ile Leu Gln Cys Leu Asp
          275          280          285
Ala Leu His Lys Asn Arg Ile Ile His Cys Asp Leu Lys Pro Glu
          290          295          300
Asn Ile Leu Leu Lys Gln Gln Gly Arg Ser Gly Ile Lys Val Ile
          305          310          315
Asp Phe Gly Ser Ser Cys Tyr Glu His Gln Arg Val Tyr Thr Tyr
          320          325          330
Ile Gln Ser Arg Phe Tyr Arg Ala Pro Glu Val Ile Leu Gly Ala
          335          340          345
Arg Tyr Gly Met Pro Ile Asp Met Trp Ser Leu Gly Cys Ile Leu

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350	355	360
Ala Glu Leu Leu Thr Gly Tyr Pro Leu	Leu Pro Gly Glu Asp Glu	
365	370	375
Gly Asp Gln Leu Ala Cys Met Ile Glu	Leu Leu Gly Met Pro Ser	
380	385	390
Gln Lys Leu Leu Asp Ala Ser Lys Arg	Ala Lys Asn Phe Val Ser	
395	400	405
Ser Lys Gly Tyr Pro Arg Tyr Cys Thr	Val Thr Thr Leu Ser Asp	
410	415	420
Gly Ser Val Val Leu Asn Gly Gly Arg	Ser Arg Arg Gly Lys Leu	
425	430	435
Arg Gly Pro Pro Glu Ser Arg Glu Trp	Gly Asn Ala Leu Lys Gly	
440	445	450
Cys Asp Asp Pro Leu Phe Leu Asp Phe	Leu Lys Gln Cys Leu Glu	
455	460	465
Trp Asp Pro Ala Val Arg Met Thr Pro	Gly Gln Ala Leu Arg His	
470	475	480
Pro Trp Leu Arg Arg Arg Leu Pro Lys	Pro Pro Thr Gly Glu Lys	
485	490	495
Thr Ser Val Lys Arg Ile Thr Glu Ser	Thr Gly Ala Ile Thr Ser	
500	505	510
Ile Ser Lys Leu Pro Pro Ser Ser	Ser Ala Ser Lys Leu Arg	
515	520	525
Thr Asn Leu Ala Gln Met Thr Asp Ala	Asn Gly Asn Ile Gln Gln	
530	535	540
Arg Thr Val Leu Pro Lys Leu Val Ser		
545		

&lt;210&gt; 14

&lt;211&gt; 416

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 1490070

&lt;400&gt; 14

Met Met Pro Gln Leu Gln Phe Lys Asp	Ala Phe Trp Cys Arg Asp
1	5 10 15
Phe Thr Ala His Thr Gly Tyr Glu Val	Leu Leu Gln Arg Leu Leu
20	25 30
Asp Gly Arg Lys Met Cys Lys Asp Met	Val Glu Leu Leu Trp Gln
35	40 45
Arg Ala Gln Ala Glu Glu Arg Tyr Gly	Lys Glu Leu Val Gln Ile
50	55 60
Ala Arg Lys Ala Gly Gly Gln Thr Glu	Ile Asn Ser Leu Arg Ala
65	70 75
Ser Phe Asp Ser Leu Lys Gln Gln Met	Glu Asn Val Gly Ser Ser
80	85 90
His Ile Gln Leu Ala Leu Thr Leu Arg	Glu Glu Leu Arg Ser Leu
95	100 105
Glu Glu Phe Arg Glu Arg Gln Lys Glu	Gln Arg Lys Lys Tyr Glu
110	115 120
Ala Val Met Asp Arg Val Gln Lys Ser	Lys Leu Ser Leu Tyr Lys

	125		130		135
Lys Ala Met Glu Ser Lys Lys Thr Tyr		Glu Gln Lys Cys Arg Asp			
	140		145		150
Ala Asp Asp Ala Glu Gln Ala Phe Glu		Arg Ile Ser Ala Asn Gly			
	155		160		165
His Gln Lys Gln Val Glu Lys Ser Gln		Asn Lys Ala Arg Gln Cys			
	170		175		180
Lys Asp Ser Ala Thr Glu Ala Glu Arg		Val Tyr Arg Gln Ser Ile			
	185		190		195
Ala Gln Leu Glu Lys Val Arg Ala Glu		Trp Glu Gln Glu His Arg			
	200		205		210
Thr Thr Cys Glu Ala Phe Gln Leu Gln		Glu Phe Asp Arg Leu Thr			
	215		220		225
Ile Leu Arg Asn Ala Leu Trp Val His		Ser Asn Gln Leu Ser Met			
	230		235		240
Gln Cys Val Lys Asp Asp Glu Leu Tyr		Glu Glu Val Arg Leu Thr			
	245		250		255
Leu Glu Gly Cys Ser Ile Asp Ala Asp		Ile Asp Ser Phe Ile Gln			
	260		265		270
Ala Lys Ser Thr Gly Thr Glu Pro Pro		Ala Pro Val Pro Tyr Gln			
	275		280		285
Asn Tyr Tyr Asp Arg Glu Val Thr Pro		Leu Thr Ser Ser Pro Gly			
	290		295		300
Ile Gln Pro Ser Cys Gly Met Ile Lys		Arg Phe Ser Gly Leu Leu			
	305		310		315
His Gly Ser Pro Lys Thr Thr Ser Leu		Ala Ala Ser Ala Ala Ser			
	320		325		330
Thr Glu Thr Leu Thr Pro Thr Pro Glu		Arg Asn Glu Gly Val Tyr			
	335		340		345
Thr Ala Ile Ala Val Gln Glu Ile Gln		Gly Asn Pro Ala Ser Pro			
	350		355		360
Ala Gln Glu Tyr Arg Ala Leu Tyr Asp		Tyr Thr Ala Gln Asn Pro			
	365		370		375
Asp Glu Leu Asp Leu Ser Ala Gly Asp		Ile Leu Glu Val Ile Leu			
	380		385		390
Glu Gly Glu Asp Gly Trp Trp Thr Val		Glu Arg Asn Gly Gln Arg			
	395		400		405
Gly Phe Val Pro Gly Ser Tyr Leu Glu		Lys Leu			
	410		415		

&lt;210&gt; 15

&lt;211&gt; 425

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 1997814

&lt;400&gt; 15

Met Glu Gln Gly Leu Glu Glu Glu Glu Glu Val Asp Pro Arg Ile		
1	5	10
Gln Gly Glu Leu Glu Lys Leu Asn Gln Ser Thr Asp Asp Ile Asn		
	20	25
Arg Arg Glu Thr Glu Leu Glu Asp Ala Arg Gln Lys Phe Arg Ser		
	35	40
		45

Val	Leu	Val	Glu	Ala	Thr	Val	Lys	Leu	Asp	Glu	Leu	Val	Lys	Lys	50	55	60
Ile	Gly	Lys	Ala	Val	Glu	Asp	Ser	Lys	Pro	Tyr	Trp	Glu	Ala	Arg	65	70	75
Arg	Val	Ala	Arg	Gln	Ala	Gln	Leu	Glu	Ala	Gln	Lys	Ala	Thr	Gln	80	85	90
Asp	Phe	Gln	Arg	Ala	Thr	Glu	Val	Leu	Arg	Ala	Ala	Lys	Glu	Thr	95	100	105
Ile	Ser	Leu	Ala	Glu	Gln	Arg	Leu	Leu	Glu	Asp	Asp	Lys	Arg	Gln	110	115	120
Phe	Asp	Ser	Ala	Trp	Gln	Glu	Met	Leu	Asn	His	Ala	Thr	Gln	Arg	125	130	135
Val	Met	Glu	Ala	Glu	Gln	Thr	Lys	Thr	Arg	Ser	Glu	Leu	Val	His	140	145	150
Lys	Glu	Thr	Ala	Ala	Arg	Tyr	Asn	Ala	Ala	Met	Gly	Arg	Met	Arg	155	160	165
Gln	Leu	Glu	Lys	Lys	Leu	Lys	Arg	Ala	Ile	Asn	Lys	Ser	Lys	Pro	170	175	180
Tyr	Phe	Glu	Leu	Lys	Ala	Lys	Tyr	Tyr	Val	Gln	Leu	Glu	Gln	Leu	185	190	195
Lys	Lys	Thr	Val	Asp	Asp	Leu	Gln	Ala	Lys	Leu	Thr	Leu	Ala	Lys	200	205	210
Gly	Glu	Tyr	Lys	Met	Ala	Leu	Lys	Asn	Leu	Glu	Met	Ile	Ser	Asp	215	220	225
Glu	Ile	His	Glu	Arg	Arg	Ser	Ser	Ala	Met	Gly	Pro	Arg	Gly		230	235	240
Cys	Gly	Val	Gly	Ala	Glu	Gly	Ser	Ser	Thr	Ser	Val	Glu	Asp	Leu	245	250	255
Pro	Gly	Ser	Lys	Pro	Glu	Pro	Asp	Ala	Ile	Ser	Val	Ala	Ser	Glu	260	265	270
Ala	Phe	Glu	Asp	Asp	Ser	Cys	Ser	Asn	Phe	Val	Ser	Glu	Asp	Asp	275	280	285
Ser	Glu	Thr	Gln	Ser	Val	Ser	Ser	Phe	Ser	Ser	Gly	Pro	Thr	Ser	290	295	300
Pro	Ser	Glu	Met	Pro	Asp	Gln	Phe	Pro	Ala	Val	Val	Arg	Pro	Gly	305	310	315
Ser	Leu	Asp	Leu	Pro	Ser	Pro	Val	Ser	Leu	Ser	Glu	Phe	Gly	Met	320	325	330
Met	Phe	Pro	Val	Leu	Gly	Pro	Arg	Ser	Glu	Cys	Ser	Gly	Ala	Ser	335	340	345
Ser	Pro	Glu	Cys	Glu	Val	Glu	Arg	Gly	Asp	Arg	Ala	Glu	Gly	Ala	350	355	360
Glu	Asn	Lys	Thr	Ser	Asp	Lys	Ala	Asn	Asn	Asn	Arg	Gly	Leu	Ser	365	370	375
Ser	Ser	Ser	Gly	Ser	Gly	Gly	Ser	Ser	Lys	Ser	Gln	Ser	Ser	Thr	380	385	390
Ser	Pro	Glu	Gly	Gln	Ala	Leu	Glu	Asn	Arg	Met	Lys	Gln	Leu	Ser	395	400	405
Leu	Gln	Cys	Ser	Lys	Gly	Arg	Asp	Gly	Ile	Ile	Ala	Asp	Ile	Lys	410	415	420
Met	Val	Gln	Ile	Gly											425		

&lt;210&gt; 16

&lt;211&gt; 1135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2299715

&lt;400&gt; 16

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Met Ala Asn Asp Ser Pro Ala Lys Ser Leu Val Asp Ile Asp Leu
  1              5              10              15
Ser Ser Leu Arg Asp Pro Ala Gly Ile Phe Glu Leu Val Glu Val
              20              25              30
Val Gly Asn Gly Thr Tyr Gly Gln Val Tyr Lys Gly Arg His Val
              35              40              45
Lys Thr Gly Gln Leu Ala Ala Ile Lys Val Met Asp Val Thr Glu
              50              55              60

Asp Glu Glu Glu Glu Ile Lys Leu Glu Ile Asn Met Leu Lys Lys
              65              70              75
Tyr Ser His His Arg Asn Ile Ala Thr Tyr Tyr Gly Ala Phe Ile
              80              85              90
Lys Lys Ser Pro Pro Gly His Asp Asp Gln Leu Trp Leu Val Met
              95              100             105
Glu Phe Cys Gly Ala Gly Ser Ile Thr Asp Leu Val Lys Asn Thr
              110             115             120
Lys Gly Asn Thr Leu Lys Glu Asp Trp Ile Ala Tyr Ile Ser Arg
              125             130             135
Glu Ile Leu Arg Gly Leu Ala His Leu His Ile His His Val Ile
              140             145             150
His Arg Asp Ile Lys Gly Gln Asn Val Leu Leu Thr Glu Asn Ala
              155             160             165
Gly Val Lys Leu Val Asp Phe Gly Val Ser Ala Gln Leu Asp Arg
              170             175             180
Thr Val Gly Arg Arg Asn Thr Phe Ile Gly Thr Pro Tyr Trp Met
              185             190             195
Ala Pro Glu Val Ile Ala Cys Asp Glu Asn Pro Asp Ala Thr Tyr
              200             205             210
Asp Tyr Arg Ser Asp Leu Trp Ser Cys Gly Ile Thr Ala Ile Glu
              215             220             225
Met Ala Glu Gly Ala Pro Pro Leu Cys Asp Met His Pro Met Arg
              230             235             240
Ala Leu Phe Leu Ile Pro Arg Asn Pro Pro Pro Arg Leu Lys Ser
              245             250             255
Lys Lys Trp Ser Lys Lys Phe Phe Ser Phe Ile Glu Gly Cys Leu
              260             265             270
Val Lys Asn Tyr Met Gln Arg Pro Ser Thr Glu Gln Leu Leu Lys
              275             280             285
His Pro Phe Ile Arg Asp Gln Pro Asn Glu Arg Gln Val Arg Ile
              290             295             300
Gln Leu Lys Asp His Ile Asp Arg Thr Arg Lys Lys Arg Gly Glu
              305             310             315
Lys Asp Glu Thr Glu Tyr Glu Tyr Ser Gly Ser Glu Glu Glu Glu
              320             325             330
Glu Glu Val Pro Glu Gln Glu Gly Glu Pro Ser Ser Ile Val Asn
              335             340             345
Val Pro Gly Glu Ser Thr Leu Arg Arg Asp Phe Leu Arg Leu Gln

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	350		355		360
Gln Glu Asn Lys	Glu Arg Ser Glu Ala	Leu Arg Arg Gln Gln	Leu		
	365		370		375
Leu Gln Glu Gln	Gln Leu Arg Glu Gln	Glu Glu Tyr Lys Arg	Gln		
	380		385		390
Leu Leu Ala Glu	Arg Gln Lys Arg Ile	Glu Gln Gln Lys Glu	Gln		
	395		400		405
Arg Arg Arg Leu	Glu Glu Gln Gln Arg	Arg Glu Arg Glu Ala	Arg		
	410		415		420
Arg Gln Gln Glu	Arg Glu Gln Arg Arg	Arg Glu Gln Glu Glu	Lys		
	425		430		435
Arg Arg Leu Glu	Glu Leu Glu Arg Arg	Arg Lys Glu Glu Glu	Glu		
	440		445		450
Arg Arg Arg Ala	Glu Glu Lys Arg	Arg Val Glu Arg Glu	Gln		
	455		460		465
Glu Tyr Ile Arg	Arg Gln Leu Glu Glu	Gln Arg His Leu	Glu		
	470		475		480
Val Leu Gln Gln	Gln Leu Leu Gln Glu	Gln Ala Met Leu Leu	His		
	485		490		495
Asp His Arg Arg	Pro His Pro Gln His	Ser Gln Gln Pro Pro	Pro		
	500		505		510
Pro Gln Gln Glu	Arg Ser Lys Pro Ser	Phe His Ala Pro Glu	Pro		
	515		520		525
Lys Ala His Tyr	Glu Pro Ala Asp Arg	Ala Arg Glu Val Pro	Val		
	530		535		540
Arg Thr Thr Ser	Arg Ser Pro Val Leu	Ser Arg Arg Asp Ser	Pro		
	545		550		555
Leu Gln Gly Ser	Gly Gln Gln Asn Ser	Gln Ala Gly Gln Arg	Asn		
	560		565		570
Ser Thr Ser Ile	Glu Pro Arg Leu Leu	Trp Glu Arg Val Glu	Lys		
	575		580		585
Leu Val Pro Arg	Pro Gly Ser Gly Ser	Ser Ser Gly Ser Ser	Asn		
	590		595		600
Ser Gly Ser Gln	Pro Gly Ser His Pro	Gly Ser Gln Ser Gly	Ser		
	605		610		615
Gly Glu Arg Phe	Arg Val Arg Ser Ser	Ser Lys Ser Glu Gly	Ser		
	620		625		630
Pro Ser Gln Arg	Leu Glu Asn Ala Val	Lys Lys Pro Glu Asp	Lys		
	635		640		645
Lys Glu Val Phe	Arg Pro Leu Lys Pro	Ala Asp Leu Thr Ala	Leu		
	650		655		660
Ala Lys Glu Leu	Arg Ala Val Glu Asp	Val Arg Pro Pro His	Lys		
	665		670		675
Val Thr Asp Tyr	Ser Ser Ser Ser Glu	Glu Ser Gly Thr Thr	Asp		
	680		685		690
Glu Glu Asp Asp	Asp Val Glu Gln Glu	Gly Ala Asp Glu Ser	Thr		
	695		700		705
Ser Gly Pro Glu	Asp Thr Arg Ala Ala	Ser Ser Leu Asn Leu	Ser		
	710		715		720
Asn Gly Glu Thr	Glu Ser Val Lys Thr	Met Ile Val His Asp	Asp		
	725		730		735
Val Glu Ser Glu	Pro Ala Met Thr Pro	Ser Lys Glu Gly Thr	Leu		
	740		745		750
Ile Val Arg Gln	Thr Gln Ser Ala Ser	Ser Thr Leu Gln Lys	His		
	755		760		765
Lys Ser Ser Ser	Ser Phe Thr Pro Phe	Ile Asp Pro Arg Leu	Leu		

	770		775		780
Gln Ile Ser Pro	Ser Ser Gly Thr Thr	Val Thr Ser Val Val	Gly		
	785		790		795
Phe Ser Cys Asp	Gly Met Arg Pro Glu	Ala Ile Arg Gln Asp	Pro		
	800		805		810
Thr Arg Lys Gly	Ser Val Val Asn Val	Asn Pro Thr Asn Thr	Arg		
	815		820		825
Pro Gln Ser Asp	Thr Pro Glu Ile Arg	Lys Tyr Lys Lys Arg	Phe		
	830		835		840
Asn Ser Glu Ile	Leu Cys Ala Ala Leu	Trp Gly Val Asn Leu	Leu		
	845		850		855
Val Gly Thr Glu	Ser Gly Leu Met Leu	Leu Asp Arg Ser Gly	Gln		
	860		865		870
Gly Lys Val Tyr	Pro Leu Ile Asn Arg	Arg Arg Phe Gln Gln	Met		
	875		880		885
Asp Val Leu Glu	Gly Leu Asn Val Leu	Val Thr Ile Ser Gly	Lys		
	890		895		900
Lys Asp Lys Leu	Arg Val Tyr Tyr Leu	Ser Trp Leu Arg Asn	Lys		
	905		910		915
Ile Leu His Asn	Asp Pro Glu Val Glu	Lys Lys Gln Gly Trp	Thr		
	920		925		930
Thr Val Gly Asp	Leu Glu Gly Cys Val	His Tyr Lys Val Val	Lys		
	935		940		945
Tyr Glu Arg Ile	Lys Phe Leu Val Ile	Ala Leu Lys Ser Ser	Val		
	950		955		960
Glu Val Tyr Ala	Trp Ala Pro Lys Pro	Tyr His Lys Phe Met	Ala		
	965		970		975
Phe Lys Ser Phe	Gly Glu Leu Val His	Gly Ser Cys Ala Gly	Phe		
	980		985		990
His Ala Val Asp	Val Asp Ser Gly Ser	Val Tyr Asp Ile Tyr	Leu		
	995		1000		1005
Pro Thr His Ile	Gln Cys Ser Ile Lys	Pro His Ala Ile Ile	Ile		
	1010		1015		1020
Leu Pro Asn Thr	Asp Gly Met Glu Leu	Leu Val Cys Tyr Glu	Asp		
	1025		1030		1035
Glu Gly Val Tyr	Val Asn Thr Tyr Gly	Arg Ile Thr Lys Asp	Val		
	1040		1045		1050
Val Leu Gln Trp	Gly Glu Met Pro Thr	Ser Val Ala Tyr Ile	Arg		
	1055		1060		1065
Ser Asn Gln Thr	Met Gly Trp Gly Glu	Lys Ala Ile Glu Ile	Arg		
	1070		1075		1080
Ser Val Glu Thr	Gly His Leu Asp Gly	Val Phe Met His Lys	Arg		
	1085		1090		1095
Ala Gln Arg Leu	Lys Phe Leu Cys Glu	Arg Asn Asp Lys Val	Phe		
	1100		1105		1110
Phe Ala Ser Val	Arg Ser Gly Gly Ser	Ser Gln Val Tyr Phe	Met		
	1115		1120		1125
Thr Leu Gly Arg	Thr Ser Leu Leu Ser	Trp			
	1130		1135		

&lt;210&gt; 17

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 209854

&lt;400&gt; 17

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Met Pro Thr Asn Cys Ala Ala Ala Gly Cys Ala Thr Thr Tyr Asn
 1              5              10              15
Lys His Ile Asn Ile Ser Phe His Arg Phe Pro Leu Asp Pro Lys
              20              25              30
Arg Arg Lys Glu Trp Val Arg Leu Val Arg Arg Lys Asn Phe Val
              35              40              45
Pro Gly Lys His Thr Phe Leu Cys Ser Lys His Phe Glu Ala Ser
              50              55              60
Cys Phe Asp Leu Thr Gly Gln Thr Arg Arg Leu Lys Met Asp Ala
              65              70              75
Val Pro Thr Ile Phe Asp Phe Cys Thr His Ile Lys Ser Met Lys
              80              85              90
Leu Lys Ser Arg Asn Leu Leu Lys Lys Asn Asn Ser Cys Ser Pro
              95              100             105
Ala Gly Pro Ser Asn Leu Lys Ser Asn Ile Ser Ser Gln Gln Val
              110             115             120
Leu Leu Glu His Ser Tyr Ala Phe Arg Asn Pro Met Glu Ala Lys
              125             130             135
Lys Arg Ile Ile Lys Leu Glu Lys Glu Ile Ala Ser Leu Arg Arg
              140             145             150
Lys Met Lys Thr Cys Leu Gln Lys Glu Arg Arg Ala Thr Arg Arg
              155             160             165
Trp Ile Lys Ala Thr Cys Leu Val Lys Asn Leu Glu Ala Asn Ser
              170             175             180
Val Leu Pro Lys Gly Thr Ser Glu His Met Leu Pro Thr Ala Leu
              185             190             195
Ser Ser Leu Pro Leu Glu Asp Phe Lys Ile Leu Glu Gln Asp Gln
              200             205             210
Gln Asp Lys Thr Leu Leu Ser Leu Asn Leu Lys Gln Thr Lys Ser
              215             220             225
Thr Phe Ile

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&lt;210&gt; 18

&lt;211&gt; 503

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 1384286

&lt;400&gt; 18

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Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln
 1              5              10              15
Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg
              20              25              30
Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile
              35              40              45
Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg

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	50		55		60
Glu Ala Arg Ile	Cys Arg Leu Leu Lys	His Ser Asn Ile Val	Arg		
	65		70		75
Leu His Asp Ser	Ile Ser Glu Glu Gly	Phe His Tyr Leu Val	Phe		
	80		85		90
Asp Leu Val Thr	Gly Gly Glu Leu Phe	Glu Asp Ile Val Ala	Arg		
	95		100		105
Glu Tyr Tyr Ser	Glu Ala Asp Ala Ser	His Cys Ile Gln Gln	Ile		
	110		115		120
Leu Glu Ala Val	Leu His Cys His Gln	Met Gly Val Val His	Arg		
	125		130		135
Asp Leu Lys Pro	Glu Asn Leu Leu Leu	Ala Ser Lys Cys Lys	Gly		
	140		145		150
Ala Ala Val Lys	Leu Ala Asp Phe Gly	Leu Ala Ile Glu Val	Gln		
	155		160		165
Gly Asp Gln Gln	Ala Trp Phe Gly Phe	Ala Gly Thr Pro Gly	Tyr		
	170		175		180
Leu Ser Pro Glu	Val Leu Arg Lys Glu	Ala Tyr Gly Lys Pro	Val		
	185		190		195
Asp Ile Trp Ala	Cys Gly Val Ile Leu	Tyr Ile Leu Leu Val	Gly		
	200		205		210
Tyr Pro Pro Phe	Trp Asp Glu Asp Gln	His Lys Leu Tyr Gln	Gln		
	215		220		225
Ile Lys Ala Gly	Ala Tyr Asp Phe Pro	Ser Pro Glu Trp Asp	Thr		
	230		235		240
Val Thr Pro Glu	Ala Lys Asn Leu Ile	Asn Gln Met Leu Thr	Ile		
	245		250		255
Asn Pro Ala Lys	Arg Ile Thr Ala His	Glu Ala Leu Lys His	Pro		
	260		265		270
Trp Val Cys Gln	Arg Ser Thr Val Ala	Ser Met Met His Arg	Gln		
	275		280		285
Glu Thr Val Glu	Cys Leu Lys Lys Phe	Asn Ala Arg Arg Lys	Leu		
	290		295		300
Lys Gly Ala Ile	Leu Thr Thr Met Leu	Ala Thr Arg Asn Phe	Ser		
	305		310		315
Ala Ala Lys Ser	Leu Leu Asn Lys Lys	Ala Asp Gly Val Lys	Pro		
	320		325		330
His Thr Asn Ser	Thr Lys Asn Ser Ala	Ala Ala Thr Ser Pro	Lys		
	335		340		345
Gly Thr Leu Pro	Pro Ala Ala Leu Glu	Ser Ser Asp Ser Ala	Asn		
	350		355		360
Thr Thr Ile Glu	Asp Glu Asp Ala Lys	Ala Arg Lys Gln Glu	Ile		
	365		370		375
Ile Lys Thr Thr	Glu Gln Leu Ile Glu	Ala Val Asn Asn Gly	Asp		
	380		385		390
Phe Glu Ala Tyr	Ala Lys Ile Cys Asp	Pro Gly Leu Thr Ser	Phe		
	395		400		405
Glu Pro Glu Ala	Leu Gly Asn Leu Val	Glu Gly Met Asp Phe	His		
	410		415		420
Arg Phe Tyr Phe	Glu Asn Leu Leu Ala	Lys Asn Ser Lys Pro	Ile		
	425		430		435
His Thr Thr Ile	Leu Asn Pro His Val	His Val Ile Gly Glu	Asp		
	440		445		450
Ala Ala Cys Ile	Ala Tyr Ile Arg Leu	Thr Gln Tyr Ile Asp	Gly		
	455		460		465
Gln Gly Arg Pro	Arg Thr Ser Gln Ser	Glu Glu Thr Arg Val	Trp		



	470		475		480
His Arg Arg Asp	Gly Lys Trp Gln Asn	Val His Phe His Cys	Ser		
	485		490		495
Gly Ala Pro Val	Ala Pro Leu Gln				
	500				

<210> 19  
 <211> 433  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte Clone Number: 1512656

<400> 19

Met Thr Gly Glu Ala Gln Ala Gly Arg Lys Arg Ser Arg Ala Arg		
1	5	10 15
Pro Glu Gly Thr Glu Pro Val Arg Arg Glu Arg Thr Gln Pro Gly		
	20	25 30
Leu Gly Pro Gly Arg Ala Arg Ala Met Ala Ala Glu Ala Thr Ala		
	35	40 45
Val Ala Gly Ser Gly Ala Val Gly Gly Cys Leu Ala Lys Asp Gly		
	50	55 60
Leu Gln Gln Ser Lys Cys Pro Asp Thr Thr Pro Lys Arg Arg Arg		
	65	70 75
Ala Ser Ser Leu Ser Arg Asp Ala Glu Arg Arg Ala Tyr Gln Trp		
	80	85 90
Cys Arg Glu Tyr Leu Gly Gly Ala Trp Arg Arg Val Gln Pro Glu		
	95	100 105
Glu Leu Arg Val Tyr Pro Val Ser Gly Gly Leu Ser Asn Leu Leu		
	110	115 120
Phe Arg Cys Ser Leu Pro Asp His Leu Pro Ser Val Gly Glu Glu		
	125	130 135
Pro Arg Glu Val Leu Leu Arg Leu Tyr Gly Ala Ile Leu Gln Gly		
	140	145 150
Val Asp Ser Leu Val Leu Glu Ser Val Met Phe Ala Ile Leu Ala		
	155	160 165
Glu Arg Ser Leu Gly Pro Gln Leu Tyr Gly Val Phe Pro Glu Gly		
	170	175 180
Arg Leu Glu Gln Tyr Ile Pro Ser Arg Pro Leu Lys Thr Gln Glu		
	185	190 195
Leu Arg Glu Pro Val Leu Ser Ala Ala Ile Ala Thr Lys Met Ala		
	200	205 210
Gln Phe His Gly Met Glu Met Pro Phe Thr Lys Glu Pro His Trp		
	215	220 225
Leu Phe Gly Thr Met Glu Arg Tyr Leu Lys Gln Ile Gln Asp Leu		
	230	235 240
Pro Pro Thr Gly Leu Pro Glu Met Asn Leu Leu Glu Met Tyr Ser		
	245	250 255
Leu Lys Asp Glu Met Gly Asn Leu Arg Lys Leu Leu Glu Ser Thr		
	260	265 270
Pro Ser Pro Val Val Phe Cys His Asn Asp Ile Gln Glu Gly Asn		

	275		280		285
Ile Leu Leu Leu Ser Glu Pro Glu Asn Ala Asp Ser Leu Met Leu					
	290		295		300
Val Asp Phe Glu Tyr Ser Ser Tyr Asn Tyr Arg Gly Phe Asp Ile					
	305		310		315
Gly Asn His Phe Cys Glu Trp Val Tyr Asp Tyr Thr His Glu Glu					
	320		325		330
Trp Pro Phe Tyr Lys Ala Arg Pro Thr Asp Tyr Pro Thr Gln Glu					
	335		340		345
Gln Gln Leu His Phe Ile Arg His Tyr Leu Ala Glu Ala Lys Lys					
	350		355		360
Gly Glu Thr Leu Ser Gln Glu Glu Gln Arg Lys Leu Glu Glu Asp					
	365		370		375
Leu Leu Val Glu Val Ser Arg Tyr Ala Leu Ala Ser His Phe Phe					
	380		385		390
Trp Gly Leu Trp Ser Ile Leu Gln Ala Ser Met Ser Thr Ile Glu					
	395		400		405
Phe Gly Tyr Leu Asp Tyr Ala Gln Ser Arg Phe Gln Phe Tyr Phe					
	410		415		420
Gln Gln Lys Gly Gln Leu Thr Ser Val His Ser Ser Ser					
	425		430		

&lt;210&gt; 20

&lt;211&gt; 527

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2098635

&lt;400&gt; 20

Met Ser Leu Cys Gly Ala Arg Ala Asn Ala Lys Met Met Ala Ala		
1	5	10 15
Tyr Asn Gly Gly Thr Ser Ala Ala Ala Ala Gly His His His His		
	20	25 30
His His His His Leu Pro His Leu Pro Pro Pro His Leu Leu His		
	35	40 45
His His His Pro Gln His His Leu His Pro Gly Ser Ala Ala Ala		
	50	55 60
Val His Pro Val Gln Gln His Thr Ser Ser Ala Ala Ala Ala Ala		
	65	70 75
Ala Ala Ala Ala Ala Ala Ala Ala Met Leu Asn Pro Gly Gln Gln		
	80	85 90
Gln Pro Tyr Phe Pro Ser Pro Ala Pro Gly Gln Ala Pro Gly Pro		
	95	100 105
Ala Ala Ala Ala Pro Ala Gln Val Gln Ala Ala Ala Ala Ala Thr		
	110	115 120
Val Lys Ala His His His Gln His Ser His His Pro Gln Gln Gln		
	125	130 135
Leu Asp Ile Glu Pro Asp Arg Pro Ile Gly Tyr Gly Ala Phe Gly		
	140	145 150
Val Val Trp Ser Val Thr Asp Pro Arg Asp Gly Lys Arg Val Ala		
	155	160 165
Leu Lys Lys Met Pro Asn Val Phe Gln Asn Leu Val Ser Cys Lys		

Arg Val Phe Arg	170	175	180
Glu Leu Lys Met Leu		Cys Phe Phe Lys His	Asp
185		190	195
Asn Val Leu Ser	Ala Leu Asp Ile Leu	Gln Pro Pro His Ile	Asp
200		205	210
Tyr Phe Glu Glu	Ile Tyr Val Val Thr	Glu Leu Met Gln Ser	Asp
215		220	225
Leu His Lys Ile	Ile Val Ser Pro Gln	Pro Leu Ser Ser Asp	His
230		235	240
Val Lys Val Phe	Leu Tyr Gln Ile Leu	Arg Gly Leu Lys Tyr	Leu
245		250	255
His Ser Ala Gly	Ile Leu His Arg Asp	Ile Lys Pro Gly Asn	Leu
260		265	270
Leu Val Asn Ser	Asn Cys Val Leu Lys	Ile Cys Asp Phe Gly	Leu
275		280	285
Ala Arg Val Glu	Glu Leu Asp Glu Ser	Arg His Met Thr Gln	Glu
290		295	300
Val Val Thr Gln	Tyr Tyr Arg Ala Pro	Glu Ile Leu Met Gly	Ser
305		310	315
Arg His Tyr Ser	Asn Ala Ile Asp Ile	Trp Ser Val Gly Cys	Ile
320		325	330
Phe Ala Glu Leu	Gly Arg Arg Ile	Leu Phe Gln Ala Gln	Ser
335		340	345
Pro Ile Gln Gln	Leu Asp Leu Ile Thr	Asp Leu Leu Gly Thr	Pro
350		355	360
Ser Leu Glu Ala	Met Arg Thr Ala Cys	Glu Gly Ala Lys Ala	His
365		370	375
Ile Leu Arg Gly	Pro His Lys Gln Pro	Ser Leu Pro Val Leu	Tyr
380		385	390
Thr Leu Ser Ser	Gln Ala Thr His Glu	Ala Val His Leu Leu	Cys
395		400	405
Arg Met Leu Val	Phe Asp Pro Ser Lys	Arg Ile Ser Ala Lys	Asp
410		415	420
Ala Leu Ala His	Pro Tyr Leu Asp Glu	Gly Arg Leu Arg Tyr	His
425		430	435
Thr Cys Met Cys	Lys Cys Cys Phe Ser	Thr Ser Thr Gly Arg	Val
440		445	450
Tyr Thr Ser Asp	Phe Glu Pro Val Thr	Asn Pro Lys Phe Asp	Asp
455		460	465
Thr Phe Glu Lys	Asn Leu Ser Ser Val	Arg Gln Val Lys Glu	Ile
470		475	480
Ile His Gln Phe	Ile Leu Glu Gln Gln	Lys Gly Asn Arg Val	Pro
485		490	495
Leu Cys Ile Asn	Pro Gln Ser Ala Ala	Phe Lys Ser Phe Ile	Ser
500		505	510
Ser Thr Val Ala	Gln Pro Ser Glu Met	Pro Pro Ser Pro Leu	Val
515		520	525
Trp Glu			

&lt;210&gt; 21

&lt;211&gt; 322

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2446646

&lt;400&gt; 21

Met	Glu	Gly	Ile	Ser	Asn	Phe	Lys	Thr	Pro	Ser	Lys	Leu	Ser	Glu	1	5	10	15
Lys	Lys	Lys	Ser	Val	Leu	Cys	Ser	Thr	Pro	Thr	Ile	Asn	Ile	Pro	20	25	30	
Ala	Ser	Pro	Phe	Met	Gln	Lys	Leu	Gly	Phe	Gly	Thr	Gly	Val	Asn	35	40	45	
Val	Tyr	Leu	Met	Lys	Arg	Ser	Pro	Arg	Gly	Leu	Ser	His	Ser	Pro	50	55	60	
Trp	Ala	Val	Lys	Lys	Ile	Asn	Pro	Ile	Cys	Asn	Asp	His	Tyr	Arg	65	70	75	
Ser	Val	Tyr	Gln	Lys	Arg	Leu	Met	Asp	Glu	Ala	Lys	Ile	Leu	Lys	80	85	90	
Ser	Leu	His	His	Pro	Asn	Ile	Val	Gly	Tyr	Arg	Ala	Phe	Thr	Glu	95	100	105	
Ala	Asn	Asp	Gly	Ser	Leu	Cys	Leu	Ala	Met	Glu	Tyr	Gly	Gly	Glu	110	115	120	
Lys	Ser	Leu	Asn	Asp	Leu	Ile	Glu	Glu	Arg	Tyr	Lys	Ala	Ser	Gln	125	130	135	
Asp	Pro	Phe	Pro	Ala	Ala	Ile	Ile	Leu	Lys	Val	Ala	Leu	Asn	Met	140	145	150	
Ala	Arg	Gly	Leu	Lys	Tyr	Leu	His	Gln	Glu	Lys	Lys	Leu	Leu	His	155	160	165	
Gly	Asp	Ile	Lys	Ser	Ser	Asn	Val	Val	Ile	Lys	Gly	Asp	Phe	Glu	170	175	180	
Thr	Ile	Lys	Ile	Cys	Asp	Val	Gly	Val	Ser	Leu	Pro	Leu	Asp	Glu	185	190	195	
Asn	Met	Thr	Val	Thr	Asp	Pro	Glu	Ala	Cys	Tyr	Ile	Gly	Thr	Glu	200	205	210	
Pro	Trp	Lys	Pro	Lys	Glu	Ala	Val	Glu	Glu	Asn	Gly	Val	Ile	Thr	215	220	225	
Asp	Lys	Ala	Asp	Ile	Phe	Ala	Phe	Gly	Leu	Thr	Leu	Trp	Glu	Met	230	235	240	
Met	Thr	Leu	Ser	Ile	Pro	His	Ile	Asn	Leu	Ser	Asn	Asp	Asp	Asp	245	250	255	
Asp	Glu	Asp	Lys	Thr	Phe	Asp	Glu	Ser	Asp	Phe	Asp	Asp	Glu	Ala	260	265	270	
Tyr	Tyr	Ala	Ala	Leu	Gly	Thr	Arg	Pro	Pro	Ile	Asn	Met	Glu	Glu	275	280	285	
Leu	Asp	Glu	Ser	Tyr	Gln	Lys	Val	Ile	Glu	Leu	Phe	Ser	Val	Cys	290	295	300	
Thr	Asn	Glu	Asp	Pro	Lys	Asp	Arg	Pro	Ser	Ala	Ala	His	Ile	Val	305	310	315	
Glu	Ala	Leu	Glu	Thr	Asp	Val									320			

&lt;210&gt; 22

&lt;211&gt; 802

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2764911

&lt;400&gt; 22

Met	Glu	Glu	Glu	Gly	Gly	Ser	Ser	Gly	Gly	Ala	Ala	Gly	Thr	Ser
1				5					10					15
Ala	Asp	Gly	Gly	Asp	Gly	Gly	Glu	Gln	Leu	Leu	Thr	Val	Lys	His
				20					25					30
Glu	Leu	Arg	Thr	Ala	Asn	Leu	Thr	Gly	His	Ala	Glu	Lys	Val	Gly
				35					40					45
Ile	Glu	Asn	Phe	Glu	Leu	Leu	Lys	Val	Leu	Gly	Thr	Gly	Ala	Tyr
				50					55					60
Gly	Lys	Val	Phe	Leu	Val	Arg	Lys	Ile	Ser	Gly	His	Asp	Thr	Gly
				65					70					75
Lys	Leu	Tyr	Ala	Met	Lys	Val	Leu	Lys	Lys	Ala	Thr	Ile	Val	Gln
				80					85					90
Lys	Ala	Lys	Thr	Thr	Glu	His	Thr	Arg	Thr	Glu	Arg	Gln	Val	Leu
				95					100					105
Glu	His	Ile	Arg	Gln	Ser	Pro	Phe	Leu	Val	Thr	Leu	His	Tyr	Ala
				110					115					120
Phe	Gln	Thr	Glu	Thr	Lys	Leu	His	Leu	Ile	Leu	Asp	Tyr	Ile	Asn
				125					130					135
Gly	Gly	Glu	Leu	Phe	Thr	His	Leu	Ser	Gln	Arg	Glu	Arg	Phe	Thr
				140					145					150
Glu	His	Glu	Val	Gln	Ile	Tyr	Val	Gly	Glu	Ile	Val	Leu	Ala	Leu
				155					160					165
Glu	His	Leu	His	Lys	Leu	Gly	Ile	Ile	Tyr	Arg	Asp	Ile	Lys	Leu
				170					175					180
Glu	Asn	Ile	Leu	Leu	Asp	Ser	Asn	Gly	His	Val	Val	Leu	Thr	Asp
				185					190					195
Phe	Gly	Leu	Ser	Lys	Glu	Phe	Val	Ala	Asp	Glu	Thr	Glu	Arg	Ala
				200					205					210
Tyr	Ser	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Met	Ala	Pro	Asp	Ile	Val
				215					220					225
Arg	Gly	Gly	Asp	Ser	Gly	His	Asp	Lys	Ala	Val	Asp	Trp	Trp	Ser
				230					235					240
Leu	Gly	Val	Leu	Met	Tyr	Glu	Leu	Leu	Thr	Gly	Ala	Ser	Pro	Phe
				245					250					255
Thr	Val	Asp	Gly	Glu	Lys	Asn	Ser	Gln	Ala	Glu	Ile	Ser	Arg	Arg
				260					265					270
Ile	Leu	Lys	Ser	Glu	Pro	Pro	Tyr	Pro	Gln	Glu	Met	Ser	Ala	Leu
				275					280					285
Ala	Lys	Asp	Leu	Ile	Gln	Arg	Leu	Leu	Met	Lys	Asp	Pro	Lys	Lys
				290					295					300
Arg	Leu	Gly	Cys	Gly	Pro	Arg	Asp	Ala	Asp	Glu	Ile	Lys	Glu	His
				305					310					315
Leu	Phe	Phe	Gln	Lys	Ile	Asn	Trp	Asp	Asp	Leu	Ala	Ala	Lys	Lys
				320					325					330
Val	Pro	Ala	Pro	Phe	Lys	Pro	Val	Ile	Arg	Asp	Glu	Leu	Asp	Val
				335					340					345
Ser	Asn	Phe	Ala	Glu	Glu	Phe	Thr	Glu	Met	Asp	Pro	Thr	Tyr	Ser
				350					355					360
Pro	Ala	Ala	Leu	Pro	Gln	Ser	Ser	Glu	Lys	Leu	Phe	Gln	Gly	Tyr
				365					370					375
Ser	Phe	Val	Ala	Pro	Ser	Ile	Leu	Phe	Lys	Arg	Asn	Ala	Ala	Val
				380					385					390
Ile	Asp	Pro	Leu	Gln	Phe	His	Met	Gly	Val	Glu	Arg	Pro	Gly	Val

	395		400		405
Thr Asn Val Ala Arg Ser Ala Met Met Lys Asp Ser Pro Phe Tyr					
	410		415		420
Gln His Tyr Asp Leu Asp Leu Lys Asp Lys Pro Leu Gly Glu Gly					
	425		430		435
Ser Phe Ser Ile Cys Arg Lys Cys Val His Lys Lys Ser Asn Gln					
	440		445		450
Ala Phe Ala Val Lys Ile Ile Ser Lys Arg Met Glu Ala Asn Thr					
	455		460		465
Gln Lys Glu Ile Thr Ala Leu Glu Leu Cys Glu Gly His Pro Asn					
	470		475		480
Ile Val Lys Leu His Glu Val Phe His Asp Gln Leu His Thr Phe					
	485		490		495
Leu Val Met Glu Leu Leu Asn Gly Gly Glu Leu Phe Glu Arg Ile					
	500		505		510
Lys Lys Lys Lys His Phe Ser Glu Thr Glu Ala Ser Tyr Ile Met					
	515		520		525
Arg Lys Leu Val Ser Ala Val Ser His Met His Asp Val Gly Val					
	530		535		540
Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Thr Asp Glu					
	545		550		555
Asn Asp Asn Leu Glu Ile Lys Ile Ile Asp Phe Gly Phe Ala Arg					
	560		565		570
Leu Lys Pro Pro Asp Asn Gln Pro Leu Lys Thr Pro Cys Phe Thr					
	575		580		585
Leu His Tyr Ala Ala Pro Glu Leu Leu Asn Gln Asn Gly Tyr Asp					
	590		595		600
Glu Ser Cys Asp Leu Trp Ser Leu Gly Val Ile Leu Tyr Thr Met					
	605		610		615
Leu Ser Gly Gln Val Pro Phe Gln Ser His Asp Arg Ser Leu Thr					
	620		625		630
Cys Thr Ser Ala Val Glu Ile Met Lys Lys Ile Lys Lys Gly Asp					
	635		640		645
Phe Ser Phe Glu Gly Glu Ala Trp Lys Asn Val Ser Gln Glu Ala					
	650		655		660
Lys Asp Leu Ile Gln Gly Leu Leu Thr Val Asp Pro Asn Lys Arg					
	665		670		675
Leu Lys Met Ser Gly Leu Arg Tyr Asn Glu Trp Leu Gln Asp Gly					
	680		685		690
Ser Gln Leu Ser Ser Asn Pro Leu Met Thr Pro Asp Ile Leu Gly					
	695		700		705
Ser Ser Gly Ala Ala Val His Thr Cys Val Lys Ala Thr Phe His					
	710		715		720
Ala Phe Asn Lys Tyr Lys Arg Glu Gly Phe Cys Leu Gln Asn Val					
	725		730		735
Asp Lys Ala Pro Leu Ala Lys Arg Arg Lys Met Lys Lys Thr Ser					
	740		745		750
Thr Ser Thr Glu Thr Arg Ser Ser Ser Ser Glu Ser Ser His Ser					
	755		760		765
Ser Ser Ser His Ser His Gly Lys Thr Thr Pro Thr Lys Thr Leu					
	770		775		780
Gln Pro Ser Asn Pro Ala Asp Ser Asn Asn Pro Glu Thr Leu Phe					
	785		790		795
Gln Phe Ser Asp Ser Val Ala					
	800				

<210> 23  
 <211> 641  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte Clone Number: 3013946

<400> 23  
 Met Ala Thr Thr Val Thr Cys Thr Arg Phe Thr Asp Glu Tyr Gln  
 1 5 10 15  
 Leu Tyr Glu Asp Ile Gly Lys Gly Ala Phe Ser Val Val Arg Arg  
 20 25 30  
 Cys Val Lys Leu Cys Thr Gly His Glu Tyr Ala Ala Lys Ile Ile  
 35 40 45  
 Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys Leu Glu Arg  
 50 55 60  
 Glu Ala Arg Ile Cys Arg Leu Leu Lys His Ser Asn Ile Val Arg  
 65 70 75  
 Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val Phe  
 80 85 90  
 Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg  
 95 100 105  
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile Gln Gln Ile  
 110 115 120  
 Leu Glu Ala Val Leu His Cys His Gln Met Gly Val Val His Arg  
 125 130 135  
 Asp Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly  
 140 145 150  
 Ala Ala Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln  
 155 160 165  
 Gly Asp Gln Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr  
 170 175 180  
 Leu Ser Pro Glu Val Leu Arg Lys Glu Ala Tyr Gly Lys Pro Val  
 185 190 195  
 Asp Ile Trp Ala Cys Gly Val Ile Leu Tyr Ile Leu Leu Val Gly  
 200 205 210  
 Tyr Pro Pro Phe Trp Asp Glu Asp Gln His Lys Leu Tyr Gln Gln  
 215 220 225  
 Ile Lys Ala Gly Ala Tyr Asp Phe Pro Ser Pro Glu Trp Asp Thr  
 230 235 240  
 Val Thr Pro Glu Ala Lys Asn Leu Ile Asn Gln Met Leu Thr Ile  
 245 250 255  
 Asn Pro Ala Lys Arg Ile Thr Ala His Glu Ala Leu Lys His Pro  
 260 265 270  
 Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met Met His Arg Gln  
 275 280 285  
 Glu Thr Val Glu Cys Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu  
 290 295 300  
 Lys Gly Ala Ile Leu Thr Thr Met Leu Ala Thr Arg Asn Phe Ser  
 305 310 315  
 Ala Lys Ser Leu Leu Asn Lys Lys Ala Asp Gly Val Lys Pro Gln  
 320 325 330  
 Thr Asn Ser Thr Lys Asn Ser Ala Ala Ala Thr Ser Pro Lys Gly  
 335 340 345

Thr	Leu	Pro	Pro	Ala	Ala	Leu	Glu	Pro	Gln	Thr	Thr	Val	Ile	His
				350					355					360
Asn	Pro	Val	Asp	Gly	Ile	Lys	Glu	Ser	Ser	Asp	Ser	Ala	Asn	Thr
				365					370					375
Thr	Ile	Glu	Asp	Glu	Asp	Ala	Lys	Ala	Pro	Arg	Val	Pro	Asp	Ile
				380					385					390
Leu	Ser	Ser	Val	Arg	Arg	Gly	Ser	Gly	Ala	Pro	Glu	Ala	Glu	Gly
				395					400					405
Pro	Leu	Pro	Cys	Pro	Ser	Pro	Ala	Pro	Phe	Gly	Pro	Leu	Pro	Ala
				410					415					420
Pro	Ser	Pro	Arg	Ile	Ser	Asp	Ile	Leu	Asn	Ser	Val	Arg	Arg	Gly
				425					430					435
Ser	Gly	Thr	Pro	Glu	Ala	Glu	Gly	Pro	Leu	Ser	Ala	Gly	Pro	Pro
				440					445					450
Pro	Cys	Leu	Ser	Pro	Ala	Leu	Leu	Gly	Pro	Leu	Ser	Ser	Pro	Ser
				455					460					465
Pro	Arg	Ile	Ser	Asp	Ile	Leu	Asn	Ser	Val	Arg	Arg	Gly	Ser	Gly
				470					475					480
Thr	Pro	Glu	Ala	Lys	Gly	Pro	Ser	Pro	Val	Gly	Pro	Pro	Pro	Cys
				485					490					495
Pro	Ser	Pro	Thr	Ile	Pro	Gly	Pro	Leu	Pro	Thr	Pro	Ser	Arg	Lys
				500					505					510
Gln	Glu	Ile	Ile	Lys	Thr	Thr	Glu	Gln	Leu	Ile	Glu	Ala	Val	Asn
				515					520					525
Asn	Gly	Asp	Phe	Glu	Ala	Tyr	Ala	Lys	Ile	Cys	Asp	Pro	Gly	Leu
				530					535					540
Thr	Ser	Phe	Glu	Pro	Glu	Ala	Leu	Gly	Asn	Leu	Val	Glu	Gly	Met
				545					550					555
Asp	Phe	His	Arg	Phe	Tyr	Phe	Glu	Asn	Leu	Leu	Ala	Lys	Asn	Ser
				560					565					570
Lys	Pro	Ile	His	Thr	Thr	Ile	Leu	Asn	Pro	His	Val	His	Val	Ile
				575					580					585
Gly	Glu	Asp	Ala	Ala	Cys	Ile	Ala	Tyr	Ile	Arg	Leu	Thr	Gln	Tyr
				590					595					600
Ile	Asp	Gly	Gln	Gly	Arg	Pro	Arg	Thr	Ser	Gln	Ser	Glu	Glu	Thr
				605					610					615
Arg	Val	Trp	His	Arg	Arg	Asp	Gly	Lys	Trp	Gln	Asn	Val	His	Phe
				620					625					630
His	Cys	Ser	Gly	Ala	Pro	Val	Ala	Pro	Leu	Gln				
				635					640					

&lt;210&gt; 24

&lt;211&gt; 588

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 067967

&lt;400&gt; 24

Met	Gly	Gly	Thr	Ala	Arg	Gly	Pro	Gly	Arg	Lys	Asp	Ala	Gly	Pro
1				5					10					15
Pro	Gly	Ala	Gly	Leu	Pro	Pro	Gln	Gln	Arg	Arg	Leu	Gly	Asp	Gly
				20					25					30
Val	Tyr	Asp	Thr	Phe	Met	Met	Ile	Asp	Glu	Thr	Lys	Cys	Pro	Pro



	35		40		45
Cys Ser Asn Val	Leu Cys Asn Pro Ser	Glu Pro Pro Ser Pro Arg			
	50	55			60
Arg Leu Asn Met	Thr Thr Glu Gln Phe	Thr Gly Asp His Thr Gln			
	65	70			75
His Phe Leu Asp	Gly Gly Glu Met Lys	Val Glu Gln Leu Phe Gln			
	80	85			90
Glu Phe Gly Asn	Arg Lys Ser Asn Thr	Ile Gln Ser Asp Gly Ile			
	95	100			105
Ser Asp Ser Glu	Lys Cys Ser Pro Thr	Val Ser Gln Gly Lys Ser			
	110	115			120
Ser Asp Cys Leu	Asn Thr Val Lys Ser	Asn Ser Ser Ser Lys Ala			
	125	130			135
Pro Lys Val Val	Pro Leu Thr Pro Glu	Gln Ala Leu Lys Gln Tyr			
	140	145			150
Lys His His Leu	Thr Ala Tyr Glu Lys	Leu Glu Ile Ile Asn Tyr			
	155	160			165
Pro Glu Ile Tyr	Phe Val Gly Pro Asn	Ala Lys Lys Arg His Gly			
	170	175			180
Val Ile Gly Gly	Pro Asn Asn Gly Gly	Tyr Asp Asp Ala Asp Gly			
	185	190			195
Ala Tyr Ile His	Val Pro Arg Asp His	Leu Ala Tyr Arg Tyr Glu			
	200	205			210
Val Leu Lys Ile	Ile Gly Lys Gly Ser	Phe Gly Gln Val Ala Arg			
	215	220			225
Val Tyr Asp His	Lys Leu Arg Gln Tyr	Val Ala Leu Lys Met Val			
	230	235			240
Arg Asn Glu Lys	Arg Phe His Arg Gln	Ala Ala Glu Glu Ile Arg			
	245	250			255
Ile Leu Glu His	Leu Lys Lys Gln Asp	Lys Thr Gly Ser Met Asn			
	260	265			270
Val Ile His Met	Leu Glu Ser Phe Thr	Phe Arg Asn His Val Cys			
	275	280			285
Met Ala Phe Glu	Leu Leu Ser Ile Asp	Leu Tyr Glu Leu Ile Lys			
	290	295			300
Lys Asn Lys Phe	Gln Gly Phe Ser Val	Gln Leu Val Arg Lys Phe			
	305	310			315
Ala Gln Ser Ile	Leu Gln Ser Leu Asp	Ala Leu His Lys Asn Lys			
	320	325			330
Ile Ile His Cys	Asp Leu Lys Pro Glu	Asn Ile Leu Leu Lys His			
	335	340			345
His Gly Arg Ser	Ser Thr Lys Val Ile	Asp Phe Gly Ser Ser Cys			
	350	355			360
Phe Glu Tyr Gln	Lys Leu Tyr Thr Tyr	Ile Gln Ser Arg Phe Tyr			
	365	370			375
Arg Ala Pro Glu	Ile Ile Leu Gly Ser	Arg Tyr Ser Thr Pro Ile			
	380	385			390
Asp Ile Trp Ser	Phe Gly Cys Ile Leu	Ala Glu Leu Leu Thr Gly			
	395	400			405
Gln Pro Leu Phe	Pro Gly Glu Asp Glu	Gly Asp Gln Leu Ala Cys			
	410	415			420
Met Met Glu Leu	Leu Gly Met Pro Pro	Pro Lys Leu Leu Glu Gln			
	425	430			435
Ser Lys Arg Ala	Lys Tyr Phe Ile Asn	Ser Lys Gly Ile Pro Arg			
	440	445			450
Tyr Cys Ser Val	Thr Thr Gln Ala Asp	Gly Arg Val Val Leu Val			

	455		460		465
Gly Gly Arg Ser	Arg Arg Gly Lys Lys	Arg Gly Pro Pro Gly Ser			
	470		475		480
Lys Asp Trp Gly	Thr Ala Leu Lys Gly	Cys Asp Asp Tyr Leu Phe			
	485		490		495
Ile Glu Phe Leu	Lys Arg Cys Leu His	Trp Asp Pro Ser Ala Arg			
	500		505		510
Leu Thr Pro Ala	Gln Ala Leu Arg His	Pro Trp Ile Ser Lys Ser			
	515		520		525
Val Pro Arg Pro	Leu Thr Thr Ile Asp	Lys Val Ser Gly Lys Arg			
	530		535		540
Val Val Asn Pro	Ala Ser Ala Phe Gln	Gly Leu Gly Ser Lys Leu			
	545		550		555
Pro Pro Val Val	Gly Ile Ala Asn Lys	Leu Lys Ala Asn Leu Met			
	560		565		570
Ser Glu Thr Asn	Gly Ser Ile Pro Leu	Cys Ser Val Leu Pro Lys			
	575		580		585
Leu Ile Ser					

&lt;210&gt; 25

&lt;211&gt; 389

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 346275

&lt;400&gt; 25

Met Ser Asp Val Cys Ser Ser Gln Arg Ala Glu His Glu His Leu		
1	5	10 15
Pro Gly Leu Val Pro Pro Pro Ser Gly Met Gly Val Arg Lys Gly		
	20	25 30
Ser Ser Pro Leu Lys Ser His Pro Cys Arg Glu Lys Ser Val Ser		
	35	40 45
Asn Arg Arg Ser Gly Lys Thr Ile Val Arg Ser Ala Val Glu Glu		
	50	55 60
Val Arg Thr Ala Gly Leu Phe Arg Ser Gly Phe Ser Glu Glu Lys		
	65	70 75
Ala Thr Gly Lys Leu Phe Ala Val Lys Cys Ile Pro Lys Lys Ala		
	80	85 90
Leu Lys Gly Lys Glu Ser Ser Ile Glu Asn Glu Ile Ala Val Leu		
	95	100 105
Arg Lys Ile Lys His Glu Asn Ile Val Ala Leu Glu Asp Ile Tyr		
	110	115 120
Glu Ser Pro Asn His Leu Tyr Leu Val Met Gln Leu Val Ser Gly		
	125	130 135
Gly Glu Leu Phe Asp Arg Ile Val Glu Lys Gly Phe Tyr Thr Glu		
	140	145 150
Lys Asp Ala Ser Thr Leu Ile Arg Gln Val Leu Asp Ala Val Tyr		
	155	160 165
Tyr Leu His Arg Met Gly Ile Val His Arg Asp Leu Lys Pro Glu		
	170	175 180
Asn Leu Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile		
	185	190 195

Ser Asp Phe Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met		
	200	210
Ser Thr Ala Cys Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu		
	215	225
Ala Gln Lys Pro Tyr Ser Lys Ala Val Asp Cys Trp Ser Ile Gly		
	230	240
Val Ile Ala Tyr Ile Leu Leu Cys Gly Tyr Pro Pro Phe Tyr Asp		
	245	255
Glu Asn Asp Ser Lys Leu Phe Glu Gln Ile Leu Lys Ala Glu Tyr		
	260	270
Glu Phe Asp Ser Pro Tyr Trp Asp Asp Ile Ser Asp Ser Ala Lys		
	275	285
Asp Phe Ile Arg Asn Leu Met Glu Lys Asp Pro Asn Lys Arg Tyr		
	290	300
Thr Cys Glu Gln Ala Ala Arg His Pro Trp Ile Ala Gly Asp Thr		
	305	315
Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser Ala Gln Ile Arg		
	320	330
Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe Asn Ala Thr		
	335	345
Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser Ser Leu		
	350	360
Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala Ser		
	365	375
Gln Lys Asp Cys Ala Tyr Val Ala Lys Pro Glu Ser Leu Ser		
	380	385

&lt;210&gt; 26

&lt;211&gt; 343

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 283746

&lt;400&gt; 26

Met Ile Gly Glu Glu Ala Met Ile Asn Tyr Glu Asn Phe Leu Lys		
1	5	15
Val Gly Glu Lys Ala Gly Ala Lys Cys Lys Gln Phe Phe Thr Ala		
	20	30
Lys Val Phe Ala Lys Leu Leu His Thr Asp Ser Tyr Gly Arg Ile		
	35	45
Ser Ile Met Gln Phe Phe Asn Tyr Val Met Arg Lys Val Trp Leu		
	50	60
His Gln Thr Arg Ile Gly Leu Ser Leu Tyr Asp Val Ala Gly Gln		
	65	75
Gly Tyr Leu Arg Glu Ser Asp Leu Glu Asn Tyr Ile Leu Glu Leu		
	80	90
Ile Pro Thr Leu Pro Gln Leu Asp Gly Leu Glu Lys Ser Phe Tyr		
	95	105
Ser Phe Tyr Val Cys Thr Ala Val Arg Lys Phe Phe Phe Phe Leu		
	110	120
Asp Pro Leu Arg Thr Gly Lys Ile Lys Ile Gln Asp Ile Leu Ala		
	125	135

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Cys Ser Phe Leu Asp Asp Leu Leu Glu Leu Arg Asp Glu Glu Leu
      140      145      150
Ser Lys Glu Ser Gln Glu Thr Asn Trp Phe Ser Ala Pro Ser Ala
      155      160      165
Leu Arg Val Tyr Gly Gln Tyr Leu Asn Leu Asp Lys Asp His Asn
      170      175      180
Gly Met Leu Ser Lys Glu Glu Leu Ser Arg Tyr Gly Thr Ala Thr
      185      190      195
Met Thr Asn Val Phe Leu Asp Arg Val Phe Gln Glu Cys Leu Thr
      200      205      210
Tyr Asp Gly Glu Met Asp Tyr Lys Thr Tyr Leu Asp Phe Val Leu
      215      220      225
Ala Leu Glu Asn Arg Lys Glu Pro Ala Ala Leu Gln Tyr Ile Phe
      230      235      240
Lys Leu Leu Asp Ile Glu Asn Lys Gly Tyr Leu Asn Val Phe Ser
      245      250      255
Leu Asn Tyr Phe Phe Arg Ala Ile Gln Glu Leu Met Lys Ile His
      260      265      270
Gly Gln Asp Pro Val Ser Phe Gln Asp Val Lys Asp Glu Ile Phe
      275      280      285
Asp Met Val Lys Pro Lys Asp Pro Leu Lys Ile Ser Leu Gln Asp
      290      295      300
Leu Ile Asn Ser Asn Gln Gly Asp Thr Val Thr Thr Ile Leu Ile
      305      310      315
Asp Leu Asn Gly Phe Trp Thr Tyr Glu Asn Arg Glu Ala Leu Val
      320      325      330
Ala Asn Asp Ser Glu Asn Ser Ala Asp Leu Asp Asp Thr
      335      340

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&lt;210&gt; 27

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2696537

&lt;400&gt; 27

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Met Gly Asn Gly Met Asn Lys Ile Leu Pro Gly Leu Tyr Ile Gly
  1      5      10      15
Asn Phe Lys Asp Ala Arg Asp Ala Glu Gln Leu Ser Lys Asn Lys
      20      25      30
Val Thr His Ile Leu Ser Val His Asp Ser Ala Arg Pro Met Leu
      35      40      45
Glu Gly Val Lys Tyr Leu Cys Ile Pro Ala Ala Asp Ser Pro Ser
      50      55      60
Gln Asn Leu Thr Arg His Phe Lys Glu Ser Ile Lys Phe Ile His
      65      70      75
Glu Cys Arg Leu Arg Gly Glu Ser Cys Leu Val His Cys Leu Ala
      80      85      90
Gly Val Ser Arg Ser Val Thr Leu Val Ile Ala Tyr Ile Met Thr
      95      100      105
Val Thr Asp Phe Gly Trp Glu Asp Ala Leu His Thr Val Arg Ala
      110      115      120

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Gly	Arg	Ser	Cys	Ala	Asn	Pro	Asn	Val	Gly	Phe	Gln	Arg	Gln	Leu
				125					130					135
Gln	Glu	Phe	Glu	Lys	His	Glu	Val	His	Gln	Tyr	Arg	Gln	Trp	Leu
				140					145					150
Lys	Glu	Glu	Tyr	Gly	Glu	Ser	Pro	Leu	Gln	Asp	Ala	Glu	Glu	Ala
				155					160					165
Lys	Asn	Ile	Leu	Ala	Ala	Pro	Gly	Ile	Leu	Lys	Phe	Trp	Ala	Phe
				170					175					180
Leu	Arg	Arg	Leu											

&lt;210&gt; 29

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 619292

&lt;400&gt; 29

Met	Gly	Leu	Ile	Asp	Gly	Met	His	Thr	His	Leu	Gly	Ala	Pro	Gly
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Leu	Tyr	Ile	Gln	Thr	Leu	Leu	Pro	Gly	Ser	Pro	Ala	Ala	Ala	Asp
				20					25					30
Gly	Arg	Leu	Ser	Leu	Gly	Asp	Arg	Ile	Leu	Glu	Val	Asn	Gly	Ser
				35					40					45
Ser	Leu	Leu	Gly	Leu	Gly	Tyr	Leu	Arg	Ala	Val	Asp	Leu	Ile	Arg
				50					55					60
His	Gly	Gly	Lys	Lys	Met	Arg	Phe	Leu	Val	Ala	Lys	Ser	Asp	Val
				65					70					75
Gly	Lys	Gln	Pro	Arg	Arg	Ser	Ile	Ser	Ala	Arg	Pro	Leu	Ser	Arg
				80					85					90
Gly	Ala	Ala	Arg	Thr	Pro	Pro	Gln	Ala	Arg	His	Pro	Val	Pro	Pro
				95					100					105
Gly	Asp	Thr	Gly	Leu	Pro	Pro	Ala	Phe	Val	Pro	Val	Leu		
				110					115					

&lt;210&gt; 30

&lt;211&gt; 356

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2054049

&lt;400&gt; 30

Met	Val	Gly	Val	Ser	Gly	Lys	Arg	Ser	Lys	Glu	Asp	Glu	Lys	Tyr
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Leu	Gln	Ala	Ile	Met	Asp	Ser	Asn	Ala	Gln	Ser	His	Lys	Ile	Phe
				20					25					30
Ile	Phe	Asp	Ala	Arg	Pro	Ser	Val	Asn	Ala	Val	Ala	Asn	Lys	Ala
				35					40					45
Lys	Gly	Gly	Gly	Tyr	Glu	Ser	Glu	Asp	Ala	Tyr	Gln	Asn	Ala	Glu

50	55	60
Leu Val Phe Leu Asp Ile His Asn Ile	His Val Met Arg Glu Ser	
65	70	75
Leu Arg Lys Leu Lys Glu Ile Val Tyr	Pro Asn Ile Glu Glu Thr	
80	85	90
His Trp Leu Ser Asn Leu Glu Ser Thr	His Trp Leu Glu His Ile	
95	100	105
Lys Leu Ile Leu Ala Gly Ala Leu Arg	Ile Ala Asp Lys Val Glu	
110	115	120
Ser Gly Lys Thr Ser Val Val Val His	Cys Ser Asp Gly Trp Asp	
125	130	135
Arg Thr Ala Gln Leu Thr Ser Leu Ala	Met Leu Met Leu Asp Gly	
140	145	150
Tyr Tyr Arg Thr Ile Arg Gly Phe Glu	Val Leu Val Glu Lys Glu	
155	160	165
Trp Leu Ser Phe Gly His Arg Phe Gln	Leu Arg Val Gly His Gly	
170	175	180
Asp Lys Asn His Ala Asp Ala Asp Arg	Ser Pro Val Phe Leu Gln	
185	190	195
Phe Ile Asp Cys Val Trp Gln Met Thr	Arg Gln Phe Pro Thr Ala	
200	205	210
Phe Glu Phe Asn Glu Tyr Phe Leu Ile	Thr Ile Leu Asp His Leu	
215	220	225
Tyr Ser Cys Leu Phe Gly Thr Phe Leu	Cys Asn Ser Glu Gln Gln	
230	235	240
Arg Gly Lys Glu Asn Leu Pro Lys Arg	Thr Val Ser Leu Trp Ser	
245	250	255
Tyr Ile Asn Ser Gln Leu Glu Asp Phe	Thr Asn Pro Leu Tyr Gly	
260	265	270
Ser Tyr Ser Asn His Val Leu Tyr Pro	Val Ala Ser Met Arg His	
275	280	285
Leu Glu Leu Trp Val Gly Tyr Tyr Ile	Arg Trp Asn Pro Arg Met	
290	295	300
Lys Pro Gln Glu Pro Ile His Asn Arg	Tyr Lys Glu Leu Leu Ala	
305	310	315
Lys Arg Ala Glu Leu Gln Lys Lys Val	Glu Glu Leu Gln Arg Glu	
320	325	330
Ile Ser Asn Arg Ser Thr Ser Ser Ser	Glu Arg Ala Ser Ser Pro	
335	340	345
Ala Gln Cys Val Thr Pro Val Gln Thr	Val Val	
350	355	

&lt;210&gt; 31

&lt;211&gt; 453

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2843910

&lt;400&gt; 31

Met Ala Gly Ala Gly Gly Phe Gly Cys Pro Ala Gly Gly Asn Asp
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Phe Gln Trp Cys Phe Ser Gln Val Lys Gly Ala Ile Asp Glu Asp

Val	Ala	Glu	Ala	Asp	Ile	Ile	Ser	Thr	Val	Glu	Phe	Asn	Tyr	Ser	20	25	30
															35	40	45
Gly	Asp	Leu	Leu	Ala	Thr	Gly	Asp	Lys	Gly	Gly	Arg	Val	Val	Ile			
															50	55	60
Phe	Gln	Arg	Glu	Gln	Glu	Asn	Lys	Ser	Arg	Pro	His	Ser	Arg	Gly			
															65	70	75
Glu	Tyr	Asn	Val	Tyr	Ser	Thr	Phe	Gln	Ser	His	Glu	Pro	Glu	Phe			
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Asp	Tyr	Leu	Lys	Ser	Leu	Glu	Ile	Glu	Glu	Lys	Ile	Asn	Lys	Ile			
															95	100	105
Arg	Trp	Leu	Pro	Gln	Gln	Asn	Ala	Ala	His	Phe	Leu	Leu	Ser	Thr			
															110	115	120
Asn	Asp	Lys	Thr	Ile	Lys	Leu	Trp	Lys	Ile	Ser	Glu	Arg	Asp	Lys			
															125	130	135
Arg	Ala	Glu	Gly	Tyr	Asn	Leu	Lys	Asp	Glu	Asp	Gly	Arg	Leu	Arg			
															140	145	150
Asp	Pro	Phe	Arg	Ile	Thr	Ala	Leu	Arg	Val	Pro	Ile	Leu	Lys	Pro			
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Met	Asp	Leu	Met	Val	Glu	Ala	Ser	Pro	Arg	Arg	Ile	Phe	Ala	Asn			
															170	175	180
Ala	His	Thr	Tyr	His	Ile	Asn	Ser	Ile	Ser	Val	Asn	Ser	Asp	His			
															185	190	195
Glu	Thr	Tyr	Leu	Ser	Ala	Asp	Asp	Leu	Arg	Ile	Asn	Leu	Trp	His			
															200	205	210
Leu	Glu	Ile	Thr	Asp	Arg	Ser	Phe	Asn	Ile	Val	Asp	Ile	Lys	Pro			
															215	220	225
Ala	Asn	Met	Glu	Glu	Leu	Thr	Glu	Val	Ile	Thr	Ala	Ala	Glu	Phe			
															230	235	240
His	Pro	His	Gln	Cys	Asn	Val	Phe	Val	Tyr	Ser	Ser	Ser	Lys	Gly			
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Thr	Ile	Arg	Leu	Cys	Asp	Met	Arg	Ser	Ser	Ala	Leu	Cys	Asp	Arg			
															260	265	270
His	Ser	Lys	Phe	Phe	Glu	Glu	Pro	Glu	Asp	Pro	Ser	Ser	Arg	Ser			
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Phe	Phe	Ser	Glu	Ile	Ile	Ser	Ser	Ile	Ser	Asp	Val	Lys	Phe	Ser			
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His	Ser	Gly	Arg	Tyr	Met	Met	Thr	Arg	Asp	Tyr	Leu	Ser	Val	Lys			
															305	310	315
Val	Trp	Asp	Leu	Asn	Met	Glu	Ser	Arg	Pro	Val	Glu	Thr	His	Gln			
															320	325	330
Val	His	Glu	Tyr	Leu	Arg	Ser	Lys	Leu	Cys	Ser	Leu	Tyr	Glu	Asn			
															335	340	345
Asp	Cys	Ile	Phe	Asp	Lys	Phe	Glu	Cys	Cys	Trp	Asn	Gly	Ser	Asp			
															350	355	360
Ser	Ala	Ile	Met	Thr	Gly	Ser	Tyr	Asn	Asn	Phe	Phe	Arg	Met	Phe			
															365	370	375
Asp	Arg	Asp	Thr	Arg	Arg	Asp	Val	Thr	Leu	Glu	Ala	Ser	Arg	Glu			
															380	385	390
Ser	Ser	Lys	Pro	Arg	Ala	Ser	Leu	Lys	Pro	Arg	Lys	Val	Cys	Thr			
															395	400	405
Gly	Gly	Lys	Arg	Arg	Lys	Asp	Glu	Ile	Ser	Val	Asp	Ser	Leu	Asp			
															410	415	420
Phe	Asn	Lys	Lys	Ile	Leu	His	Thr	Ala	Trp	His	Pro	Val	Asp	Asn			
															425	430	435
Val	Ile	Ala	Val	Ala	Ala	Thr	Asn	Asn	Leu	Tyr	Ile	Phe	Gln	Asp			

Lys Ile Asn                      440                      445                      450

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<212> DNA  
<213> Homo sapiens

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<223> Incyte Clone Number: 132240

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cagattgcc aaaaaagacc tcacaaaaag gtgtcgagaa ccctgctgta caagagagta 180  
acaaaaaat gttaggctct cctttggagg tgctgaaaac gttagcctct aaaagaaatg 240  
ctgttgcttt tcgaagtttt aacagtcata ttaatgcac caataactca gaaccatcca 300  
gaatgaacat gacttcttta gatgcaatgg atatttcgtg tgcctacagt ggttcatatc 360  
ccatggctat aaccctact caaaaaagaa gatcctgtat gccacatcag accccaaatc 420  
agatcaagtc gggaactcca taccgaactc cgaagagtgt gagaagaggg gtggcccccg 480  
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<211> 542  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte Clone Number: 2180116

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tt

542

<210> 34  
<211> 2778  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> 2548, 2557, 2645, 2722, 2557, 2762, 2765  
<223> Incyte Clone Number: 2197671

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&lt;210&gt; 35

&lt;211&gt; 1424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2594943

&lt;400&gt; 35

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&lt;210&gt; 36

&lt;211&gt; 1839

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 1513871

&lt;400&gt; 36

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&lt;210&gt; 37

&lt;211&gt; 2024

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 156108

&lt;400&gt; 37

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&lt;210&gt; 38

&lt;211&gt; 1861

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2883243

&lt;400&gt; 38

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&lt;210&gt; 39

&lt;211&gt; 2045

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 3173355

&lt;400&gt; 39

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&lt;210&gt; 40

&lt;211&gt; 1260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 5116906

&lt;400&gt; 40

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&lt;210&gt; 41

&lt;211&gt; 2059

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 940589

&lt;400&gt; 41

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&lt;210&gt; 42

&lt;211&gt; 1023

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 304421

&lt;400&gt; 42

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&lt;210&gt; 43

&lt;211&gt; 4416

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 1213802

&lt;400&gt; 43

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&lt;211&gt; 2068

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&lt;400&gt; 44

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<223> Incyte Clone Number: 2299715

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&lt;211&gt; 1182

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 209854

&lt;400&gt; 48

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<211> 1454

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<223> Incyte Clone Number: 2446646

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<213> Homo sapiens



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&lt;223&gt; Incyte Clone Number: 2764911

&lt;400&gt; 53

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<223> Incyte Clone Number: 3013946

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<223> Incyte Clone Number: 067967

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<211> 1728

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte Clone Number: 346275

<400> 56

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&lt;210&gt; 57

&lt;211&gt; 1610

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte Clone Number: 283746

&lt;400&gt; 57

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&lt;211&gt; 1290

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2696537

&lt;400&gt; 58

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&lt;210&gt; 59

&lt;211&gt; 2281

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 551178

&lt;400&gt; 59

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&lt;210&gt; 60

&lt;211&gt; 632

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 619292

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&lt;211&gt; 2347

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte Clone Number: 2054049

&lt;400&gt; 61

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<223> Incyte Clone Number: 2843910

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